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6235
KENDALL
&
WHITNEY



SEEDS

**IMPLEMENTS
AND
FERTILIZERS**

1916

**FEDERAL and TEMPLE STS.
PORTLAND, MAINE**

1916 MARKS OUR FIFTY-EIGHTH YEAR IN BUSINESS

Established 1858

Incorporated 1896

1916

SEEDS AND IMPLEMENTS

From a modest business beginning Fifty-Eight years ago, we have grown into one of the most complete Seed and Agricultural establishments in New England, and are the largest and best equipped agricultural warehouse in Maine. This has been made possible by supplying only the best and most perfect goods obtainable, coupled with the constantly increasing co-operation of our thoroughly satisfied patrons. To these many friends we gratefully extend our sincere thanks, and assure them that we will do all in our power to merit a continuation of their confidence.

It is important that orders be sent to us as soon after receipt of Catalog as convenient, that we may be able to give the quickest possible shipments. We would suggest that anyone failing to receive prompt shipments should inform us, as it frequently happens that orders reach us without a signature, so please give your Name, Post Office, County and State in full, as plainly as possible, your name especially written very distinctly.

We urge customers to inform us promptly on the arrival of orders if anything proves otherwise than expected. Mail orders receive the same careful attention that customers do over our counters, but if errors occur, we are willing and anxious to correct them.



Greenhouse plants furnished at short notice. Seeds forwarded by Mail, Express or Freight, as the purchaser may wish. In shipping we make no charge for delivery to railroads or express companies. Bags charged at cost.

Prices quoted in our Catalog are subject to change without notice.

All sums to the amount of one dollar and upwards may be sent at our risk if forwarded according to the following directions, viz.: by Post Office Money Orders, Bank Drafts or Cash sent in a Registered Letter.

ALL CORRESPONDENCE ANSWERED PROMPTLY

TELEPHONE ORDERS GIVEN IMMEDIATE ATTENTION, CALL PORTLAND 3953

While we exercise the greatest care to have all Seeds, Plants, Bulbs and Nursery Stock the best and most reliable, we do not give, and our employees are forbidden to give any warranty, express or implied. If the purchaser does not accept the goods on these terms, they must at once be returned.

KENDALL & WHITNEY

KENDALL & WHITNEY'S

Illustrated and Descriptive

CATALOG

of GARDEN, FIELD
and FLOWER

SEEDS

1916

Seed Merchants, Growers & Importers

AND DEALERS IN

Agricultural and Horticultural Implements, Sprayers, Insecticides, Fertilizers, Poultry and Dairy Supplies, Wooden Ware, Galvanized Iron Ware, Brooms, Brushes, Cordage, Etc.

KENDALL & WHITNEY

FEDERAL and TEMPLE STREETS

PORTLAND, MAINE



A DESCRIPTIVE LIST OF FLOWER SEEDS

FLOWER SEEDS SENT FREE BY MAIL ON
RECEIPT OF PRICE

ABRONIA UMBELLATA.



Per Pkt.

Handsone, trailing annuals, with clusters of sweet-scented flowers resembling the verben. Fine for baskets or for the garden. Blooms from August until October

5



ACROLINIUM.

An elegant, half-hardy annual, producing beautiful everlasting flowers. Grows about one foot high.

MIXED

5

ABRONIA UMBELLATA.

ADONIS.

A hardy annual, with very pretty foliage, producing bright red flowers. Grows about one foot high and blooms for a long time.....

5

AGERATUM.

Half-hardy, free-flowering annuals, blooming throughout the season. Fine for beds or borders.

FINE MIXED. 1 ft..... 5
IMPERIAL DWARF BLUE. 8 in. 5
PERFECTION DARK BLUE. 1 ft. 5



AGERATUM.



ALYSSUM.

ALYSSUM.

A hardy annual, about eight inches high, with clusters of small, fragrant flowers. Fine for bedding and bouquets.

SWEET. White; 1 ft..... 5

SAXATILE COMPACTA. Yellow, ¾ ft.; hardy perennial 5

TOM THUMB. Very dwarf; white..... 5

ANTIRRHINIUM. (Snap Dragon.)

GIANT VARIETIES.

Per Pkt.

A very showy and half-hardy perennial, about three feet high, flowering well the first season. Sow the seeds early, in pots or under glass. An improvement over the old variety, producing longer spikes and larger flowers.

ROSE

5

SCARLET. 5

SCARLET. White throat. 5

WHITE

5

YELLOW

5

YELLOW AND SCARLET.. 5

MIXED

5

HALF DWARF.

Fine for bedding, about eighteen inches high.

MIXED..... 5



ANTIRRHINIUM.

AMARANTHUS.

Half-hardy annuals, about two feet high, with finely variegated foliage. They are most brilliant on poor soil and in dry seasons.

TRICOLOR

5

AMMOBIUM ALATUM.

A useful everlasting for making dried winter bouquets and a showy border plant, growing freely in any garden soil. Hardy annual.

WHITE. 2 ft..... 5

AMPELOPSIS—Veitchii.

(Boston Ivy.)

Popular, rapid-growing, hardy vine. Adheres firmly to stone or brick, foliage turning very brilliant in the autumn. 5

ANAGALLIS.

Beautiful, trailing, hardy annuals, about six inches high and very desirable for small beds, edgings, baskets, etc.

MIXED

5

ASPERULA.

A most profuse-blooming, hardy annual, attaining an average growth of one foot, the flowers of which are a beautiful light blue, are very sweet scented, and last a long while in perfection. 1 ft. 5

ASTER.

Very beautiful and popular half-hardy annuals, growing from ten to eighteen inches high. For profusion of flowers and richness of display, the asters are unrivalled. Sow the seed early in the spring, under glass or in pots in the house, and transplant into rich soil, about one foot apart.

ASTER—Continued.**DWARF VARIETIES.**

DWARF CHRYSANTHEMUM FLOWERED. A free bloomer, with large flowers; mixed; 1 ft. 10

TRIUMPH. Deep scarlet. A rich, brilliant color. Each plant bears thirty to forty flowers of great beauty; 8 in. 10

SEMI-DWARF VARIETIES.

COMET. A variety of great beauty. Grows in pyramidal form thirteen to fifteen inches high, covered with large double flowers with long curled petals. Choicest mixed varieties 10

CARTER'S WHITE PLUME. One of the most magnificent white asters yet produced; height about fifteen inches. 10



QUILLED ASTER.

MIGNON. Flowers profusely; very popular, especially with florists.

PURE WHITE 10

MIXED COLORS 10

BETTERIDGE QUILLED. Perfectly double quilled flowers of beautiful mixed colors. 5

QUEEN OF THE MARKET. Finest mixed; very early. 10

VICTORIA. Very large, of perfectly double form.

WHITE 10

MIXED 10

TALL VARIETIES.

COCARDEAU OR CROWN. The flowers of this variety have large white centers bordered with scarlet, carmine, violet or blue; attractive and beautiful; 2 ft. 10

CREGO. The finest of all comet asters, having immense flowers resembling chrysanthemums.

LAVENDER 10

PINK 10

WHITE 10

MIXED 10

JEWEL. A beautiful class obtained from the well-known large flowered Peony Perfection. The flower is densely double, and the petals so symmetrically incurved as to resemble a perfect ball. Mixed colors ... 10



JEWEL ASTER.

ROSE FLOWERED. A fine variety; flowers very double. Mixed; 2 ft. 10

SEMPLE'S BRANCHING. A superior and free-flowering class. The flowers are large, with graceful, wavy petals on long stems; excellent for cutting; 2 ft.

LAVENDER 10

PINK 10

CRIMSON 10

WHITE 10

PURPLE 10

FINEST MIXED. All colors 10

TRUFFAUT'S PEONY-FLOWERED PERFECTION. An early flowering variety; flowers very double. Fine mixed colors; 2 ft. 10

CHINESE. Common variety; mixed. 5



BACHELOR'S BUTTON.

BACHELOR'S BUTTON.

Per Pkt.

A showy, hardy annual, about two feet high, succeeding well in any soil. Set six inches apart.

FINEST MIXED 5

EMPEROR WILLIAM. Deep blue 5

DOUBLE BLUE 10

BALSAM.

Most magnificent, popular, half-hardy annuals, from one and one-half to two feet in height. Sow the seeds early in frames, and transplant to a well enriched border one foot apart.

FINE DOUBLE. Mixed.... 5

ROSE-FLOWERED 5

CAMELIA-FLOWERED. Finest mixed 5



DOUBLE BALSAM.

BARTONIA AUREA.

A showy, half-hardy annual, growing about two feet high, bearing very brilliant yellow flowers. Thin plants to six inches apart. 5

BEANS. (Flowering.)

See list of beans with vegetable seeds.



DOUBLE DAISY.

BELLIS PERENNIS. (Double Daisy.)

A favorite perennial for the border or for pot culture. Set plants six inches apart.

RED. Very fine 10

SNOWBALL. White; large 10

FINEST MIXED 10

BRACHYCOME IBERIDIFOLIA.**(Swan River Daisy.)**

Very pretty, free-flowering, dwarf-growing annual; well adapted to edgings, rustic baskets, or pot culture.

MIXED BLUE AND WHITE. ½ ft. 5



SWAN RIVER DAISY.

BROWALLIA.

Per Pkt.

Handsome, profuse-blooming annual, covered with beautiful flowers during the summer and autumn months.

ELATA COERULEA. Blue; 1½ ft.....	5
ALBA. White; 1½ ft.....	5
FINE MIXED.....	5



CALENDULA.

CALENDULA.

Free-flowering, hardy annual, growing in any good garden soil, producing a fine effect in beds or mixed borders. 1 to 1½ ft.

METEOR. Double; yellow striped orange.....	5
PRINCE OF ORANGE. Double; dark orange.....	5
FINEST DOUBLE MIXED.....	5



CALCEOLARIA.

CALCEOLARIA.

Indispensable for the greenhouse or the flower garden. They succeed in any light, rich soil. Half-hardy perennials.

CHOICE MIXED VARIETIES.... 25



CANDYTUFT.

CANDYTUFT.

A well-known, hardy annual, very useful for bedding and bouquets, and also for pot culture.

EMPRESS. Large trusses of pure white flowers; very handsome. Used for forcing. Ounce 40c..... 5

LITTLE PRINCE. Large heads of pure white flowers. Plants about six inches high. Ounce 40c..... 5

CRIMSON. Ounce 25c..... 5

PURPLE. Ounce 25c..... 5

WHITE. Ounce 25c..... 5

FINEST MIXED. Ounce 25c..... 5

ROCKET. Pure white, long spikes. Ounce 25c..... 5

CANARY BIRD FLOWER.

A rapid-growing, delicate climber, reaching a height of from ten to fifteen feet. Bright yellow, fringed; exceedingly beautiful foliage. Half-hardy annual..... 5



CANARY BIRD FLOWER.

CANNA.

Per Pkt.

Handsome foliage plants, growing from three to eight feet high. Highly ornamental on the lawn. Soak the seed in warm water for about twelve hours. Seeds should be sown early in a strong, moist heat. Half-hardy perennials.

FINEST MIXED..... 5



CANTERBURY BELLS.

CANTERBURY BELLS.

A well-known biennial, growing about one foot high, producing beautiful bell-shaped flowers.

DOUBLE BLUE.....	10
DOUBLE WHITE.....	10
DOUBLE MIXED.....	10

CATCHFLY.

A hardy annual, about one foot high; produces brilliant flowers in great profusion in early summer.

RED.....	5
WHITE.....	5
PINK.....	5
MIXED.....	5

CENTAUREA.

Silver-leaved plants, fine for ribbon borders, baskets, etc. Half-hardy perennial.

CANNIBISSIMA. Thick foliage; ¾ ft.....	10
GYMNOCARPA. Graceful white foliage; ¾ ft.....	10

CINERARIA.

Well-known favorite, free-flowering plants for the greenhouse, which may be had in splendid bloom through the greater portion of the year, and from the richness and diversity of the colors are among the most valuable of our early spring flowers; succeed best in light, rich, free and open soil. Greenhouse perennial.

CARTER'S BRILLIANT PRIZE. Choicest varieties.....	25
FINE MIXED VARIETIES.....	25

CHRYSANTHEMUM.

Handsome, hardy annual, about two feet high, blooming from July to October.

DOUBLE WHITE.....	5
DOUBLE YELLOW.....	5
DOUBLE MIXED.....	5

CLARKIA.

A very beautiful hardy annual, about eighteen inches high, blooming from June to September. Set six inches apart.

FINE MIXED. Ounce 30c..... 5



CLARKIA.

COBAEA SCANDENS.

The most useful of climbers, on account of its rapid growth, fine foliage, and large, bell-shaped flowers, purple in color. In sowing place the seeds edgewise and cover lightly. Half-hardy perennial..... 10



COBAEA SCANDENS.

COCKSCOMB.

Per Pkt.

Very singular and attractive, half-hardy annuals, about two feet high. To perfect the flowers they should be sown in the hot-beds and transplanted into rich soil one foot apart.

MIXED. Double 10

COLEUS.

One of the most popular foliage plants. Is very decorative in the flower border, and easily grown from seed, which frequently produces new and distinct varieties. Half-hardy perennial.

NEW HYBRIDS. Mixed 15

COLUMBINE.

A well-known, showy, hardy perennial, about two feet high, blooming in May and June.

MIXED 5



MORNING GLORY.

CONVOLVULUS MAJOR.**(Morning Glory.)**

A well-known beautiful, climbing annual, suitable for covering arbors, trellises, etc. Blooms from July until autumn.

FINE MIXED. Ounce 10c. 5

JAPANESE. Gigantic flowers, exquisite new colors, magnificent foliage. Finest mixed 5

CONVOLVULUS MINOR.

Beautiful and showy, half-hardy annuals, producing an abundance of rich colored flowers. Set plants one foot apart. Blooms from July until autumn.

FINE MIXED 5

MAURITANICUS. Beautiful for hanging baskets and vases. Flowers blue 5

COREOPSIS.

Showy, hardy annuals about two feet high, succeeding well in any soil. Produces a fine effect when grown in a mass. Blooms from June until September.

FINE MIXED 5

DRUMMOND'S. Large yellow. 5



COREOPSIS.

COSMOS.

Splendid flower for cutting purposes, plants growing five to seven feet high, which are beautiful masses of the most elegant foliage, with hundreds of large, showy blossoms. Both foliage and flowers are excellent for cutting. Sow seed early in spring and transplant to the garden in June.



COSMOS.

CYPRUS VINE.

One of the most popular of all summer climbers; flowers small, thickly set in a most beautiful dark-green foliage, forming a striking contrast. Tender annuals.

SCARLET 5



DAHLIA.

DAHLIA.

Per Pkt.

Plant in a shallow box or pan early in March or April, transplant carefully and keep the soil moderately moist. When all danger from frost is over set out in the bed or border in the garden.

FINEST MIXED. Single... 10

FINEST MIXED. Double.. 10

DATURA.

Beautiful, half-hardy annual, growing from two to three feet in height and producing very large flowers; continues in bloom from July until September.

MIXED 5

DELPHINIUM FORMOSUM.

A hardy perennial, about two feet high, producing an abundance of exquisite blue and white flowers. Blooms the first season 5

DRACOENA.

Beautiful, ornamental-leaved plant, extensively used in vases and for house decoration. Tender perennial.

INDIVISA. Narrow, dark green foliage 10

ESCHSCHOLTZIA.**(California Poppy.)**

A very showy, hardy annual, about one foot high, blooming from June until September. Produces a brilliant effect; admirable for borders when grown in a mass.

ALBA. White 5

CALIFORNICA. Yellow; orange center 5

MANDARIN. Orange and scarlet 5

FINEST SINGLE MIXED.... 5

CARTER'S CARMINE KING. A splendid new variety, of a beautiful carmine-rose color 10

MANDARIN. Double; orange and scarlet..... 10



ESCHSCHOLTZIA.

FEVERFEW. (Pyrethrum.)

Handsome, free-flowering, highly ornamental plants, producing a fine effect in the mixed flower and shrubbery borders. Succeeds in any rich soil.

DOUBLE WHITE 5

GOLDEN FEATHER. Prized for its yellow foliage 5



FORGET-ME-NOT.

FORGET-ME-NOT.

A very pretty little half-hardy perennial, about ten inches high. Will thrive best in a cool, moist situation, and is well adapted for bedding, blooming the first year from seed.

VICTORIA. Dwarf, sky blue, of bushy habit. Fine for bordering 5

MIXED 5

FOXGLOVE.

Per Pkt.

A hardy biennial, growing three to four feet high, and very ornamental in a garden or amongst shrubbery, as it produces tall spikes of bell-shaped flowers.

GLOXINIAEFLORA. Mixed. Spotted flower 5

FRENCH HONEYSUCKLE.

A fine border plant. Hardy perennial.

WHITE 5

RED 5

MIXED 5

GAILLARDIA.

Showy and universally-admired annual. Very beautiful; fine for bedding and bouquets.

FINE MIXED 5

GOURDS.

A valuable and highly interesting class of climbing plants. Tender annuals.

AFRICAN PIPE. The stem end used in making pipes 5

BOTTLE. Well known, bottle shaped 5

HERCULES CLUB. Club shaped; very long 5

NEW MINIATURE. Orange and green striped; one of the best 5

ORANGE. Very ornamental, fruit resembling an orange 5

POWDER HORN 5

FINE MIXED 5

GLOBE AMARANTH.

A tender annual, about two feet high, very ornamental in the garden. The flowers will retain their beauty for a long time if gathered and dried as soon as they are open. Start early in hot-beds, and transplant one foot apart in the border when the weather becomes warm.

MIXED 5



GLOXINIA.

GLOXINIA.

Greenhouse plants, producing richly colored and brilliant flowers. Perennial.

CARTER'S INVINCIBLE PRIZE. Contains all the best self-colors, crimson, sapphire, purple, ruby, rose, bluish violet and white, together with the most beautiful spotted or marbled kinds 25

GRASSES. (Ornamental.)

The ornamental grasses produce a beautiful and pleasing contrast when interspersed with flowering plants. Most of the varieties may be dried for winter bouquets, or used for filling vases, either in a dried or a green state.

Agrostis Nebulosa.

One of the most graceful grasses in cultivation. Hardy annual; 1½ ft. 5

Avena Sterilis. (Animated Oats.)

Very graceful, with large, drooping spikes on slender stems. Hardy annual; 2 ft. 5

Briza Maxima. (Quaking Grass.)

A most beautiful variety; one of the best. Hardy annual; 1¼ ft. 5

Briza Gracilis. (Quaking Grass.)

Very delicate and graceful. Hardy annual; 1 ft. 5

Coix Lachrymae. (Job's Tears.)

A well-known variety. Half-hardy annual; 2 ft. 5

GRASSES—Continued.

Per Pkt.

Eragrostis Elegans. (Love Grass.)

A favorite variety, graceful habit and very much admired. Hardy annual; 2 ft. 5

Gynerium Argentum. (Pampas Grass.)

The finest ornamental grass in cultivation. Half-hardy perennial; 10 ft. 5

Hordeum Jubatum. (Squirrel Tail Grass.)

Very handsome light purple plumes. Hardy annual; 3 ft. 5

Lagurus Ovatus. (Hare's Tail Grass.)

Small white plumes. Hardy annual; 2 ft. 5

Sectaria Microcheta.

Large, drooping plumes of the most graceful description. Hardy annual; 2 ft. 5

Stipa Pennata. (Feather Grass.)

One of the finest of the ornamental grasses. Hardy perennial; 2 ft. 5



GODETIA.

GODETIA.

Very attractive hardy annual of easy culture, about one foot high, flowering in July and August.

FINE MIXED 5

GREVILLEA ROBUSTA.

A very graceful decorative plant, with evergreen, fern-like foliage. Tender perennial 5

GYPSOPHILIA.

A free-flowering annual that should be in every garden, for it thrives abundantly, furnishing the loveliest material for bouquets.

PANICULATA. (Baby's Breath.) White flowers, fine for bouquets. Hardy perennial; 2 ft. 5

ELEGANS. Hardy annual; pure white 5

HELICHRYSUM. (Eternal Flower.)

A hardy annual, very ornamental in the garden, and very desirable for winter bouquets, as they will retain their form and color for years if gathered and dried when first open.

DOUBLE YELLOW 5

DOUBLE WHITE 5

DOUBLE SCARLET 5

DOUBLE PURPLE 5

DOUBLE FINE MIXED 5



HELIOTROPE.

HELIOTROPE.

A well-known, half-hardy perennial, particularly prized on account of its delightful fragrance. It is well adapted for bedding or pot culture. Sow the seeds early in spring, in pots or in the hothouse, and transplant into the garden when the weather becomes warm.

LOUISE DELUAX. Rose-tinted flowers 10

MAD. DE BLONAY. White; for bouquets 10

FINEST MIXED. Dark varieties 10



HOLLYHOCK.

HOLLYHOCK.

Per Pkt.

Showy perennials, four to six feet high; very effective amongst shrubbery.

DOUBLE WHITE. Flowers pure white, perfectly double	10
EXTRA CHOICE DOUBLE FINEST MIXED.....	10
FINE MIXED. Double....	5
SINGLE. Finest mixed....	5

HONESTY.

A hardy biennial, two feet high, flowering the second year in May and June. The flowers are succeeded by singular semi-transparent seed vessels that are quite ornamental and may be kept for a long time

5

HUMULUS JAPONICUS. (Hop.)

An extremely rapid-growing climber, with handsome, variegated foliage. Hardy annual; 20 ft.

5

HYACINTH BEAN.

Tender, climbing annual, producing clusters of blue and white flowers; 10 ft.

5

ICE PLANT.

A singular-looking, tender annual, with thick, fleshy leaves that have the appearance of being covered with crystals of ice. Start early in pots and transplant into light, sandy soil, in a warm situation.....

5

JACOBEE.

A very gay-colored, showy class of hardy annuals, very effective for bedding. Grows about one foot high.

DOUBLE FINEST MIXED

5

KOCHIA TRICHOPHYLLA. (Glowing Ball.)

This ornamental annual plant grows quickly from seed sown in the open ground, when the trees are coming out in leaf, and the plants are always of a rounded or globe-like form. The stems are clothed with slender, light green leaves. Early in the fall the ends of the shoots are set thickly with small, bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round ball-like form on all sides or grown in continuous rows

5

LANTANA.

Highly valuable plants of vigorous growth and branching habit, producing brilliantly-colored flowers constantly changing in hue. Very effective, either for pot culture or for bedding.

FINE MIXED

5

LARKSPUR.

Very beautiful, showy annuals, producing dense spikes of flowers, which are very decorative, either in the garden or when cut for vases. Set ten inches apart.

DWARF DOUBLE ROCKET. Finest mixed.....

5

DOUBLE BRANCHING. Fine mixed

5

LAVENDER.

A shrubby plant, half-hardy. Delightful fragrance

5

LINUM. (Flowering Flax.)

Per Pkt.

GRANDIFLORUM RUBRUM. Brilliant, dark scarlet. Hardy annual

5

LOBELIA.

Most excellent and useful plants, free-flowering and of easy culture. Fine for borders, baskets, vases and window boxes.

GRACILIS. Fine for hanging baskets, vases, etc.; light blue; trailing.....

5

CRYSTAL PALACE. Compact; dark blue; excellent for edging

5

WHITE GEM. The best white variety for edging.....

5

CARDINALIS. Long spikes, bright scarlet flowers. Hardy perennial.....

10



LOPHOSPERMUM.

LOPHOSPERMUM.

One of the most beautiful climbing annuals. Graceful flowers of large size, resembling foxgloves in shape, and of a rich rose color. The foliage is of velvety texture.

SCANDENS. Rosé

10

LOVE-LIES-BLEEDING.

A hardy annual, three to four feet high, with pendant spikes of blood-red flowers

5

LOVE-IN-A-MIST.

A curious, hardy annual about one foot high, with finely cut leaves and singular flowers.

MIXED

5

LUPINS.

Showy plants, two to three feet high, producing tall spikes of attractive flowers.

FINE MIXED. Annual

5

MALOPE.

Handsome, half-hardy annual, about two feet high. Set eighteen inches apart. Well adapted to mixed borders.

FINE MIXED

5

MARVEL OF PERU. (Four O'clock.)

The old and well-known four o'clock. A beautiful plant, with flowers of various colors, making a fine summer hedge when set one foot apart. Grows two feet high.

FINE MIXED

5



MARIGOLD.

MARIGOLD.

Extremely showy, half-hardy annual, one to two feet high, well adapted to garden culture, blooming profusely through the season. Set one foot apart.

AFRICAN. Double mixed.....

5

FRENCH. Double mixed; all colors

5

LEGION OF HONOR. Single flowering, about nine inches high; golden yellow, with large spot of velvety crimson

5

ORANGE. Double

5

MAURANDIA.

Per Pkt.

An elegant, half-hardy, climbing perennial, blooming the first season if sown early, and is well adapted to the conservatory or trellis work in the garden. Start early in pots, transplant when the weather becomes warm. Continues in bloom through the season.

BARCLAYANA. Rich violet flowers.....	10
ROSEA.....	10
PURPLE.....	10
FINE MIXED.....	10

MORNING GLORY. (See *Convolvulus*.)**MOURNING BRIDE.** (*Scabiosa*.)

A class of very pretty, hardy annuals, from one to two feet high, suitable for bedding or bouquets.

PURPLE.....	5
RED.....	5
WHITE.....	5
FINEST MIXED.....	5



MIGNONETTE.

MIGNONETTE.

A well-known, hardy annual, universally grown and esteemed for its delicious fragrance. If well thinned out, the plants will grow stronger and produce larger spikes of bloom.

Mignonette, Sweet.

Large-flowered variety, very fragrant. Per ounce, 15c.....

Dwarf, Compact.

A very desirable variety, distinct in character, forming a dwarf, dense bush.....

Large Flowered, Pyramidal.

Greatly superior to the old variety of pyramidal growth and much larger flowers.....

Machet.

The finest variety for pot culture; sweet-scented, red flowers.....

White Pearl.

Flowers nearly white; a desirable variety.....

Gabriele.

A variety of dwarf pyramidal growth with large spikes of reddish flowers; fine for pots, or in the open ground.....

Allen's Defiance.

Spikes of immense size; deliciously fragrant.....

MIMULUS.

Handsome, profuse-blooming plants, with flowers of singular form and brilliant colors, fine for greenhouse or shady situations. Half-hardy perennials, blooming from seed the first year.

FINE MIXED.....	10
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MUSK PLANT.

Much esteemed for the strong musk odor of its leaves. It has a yellow bloom.....

NEMOPHILA.

Charming hardy, low annual, producing an abundance of extremely delicate and beautiful flowers. Very useful for bedding or for pot culture. Sow early in pots and transplant into a cool, rather moist, location.

INSIGNIS. Clear, bright blue, white center.....	5
FINEST MIXED.....	5

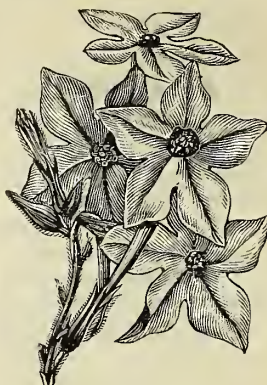


NEMOPHILA.

NICOTIANA.

Per Pkt.

Deliciously fragrant flowers, very ornamental, of easy cultivation, excellent for cutting. Half-hardy annuals.



NICOTIANA.

AFFINIS. White, very fragrant.....

SYLVESTRIS. Plants of pyramidal growth, about four feet high. Flowers pure white and very fragrant.....

SANDERAE. Branching habit; two feet. Strikingly beautiful plants. Blossoms brilliant carmine-red; delicious fragrance.....

NIEREMBERGIA GRACILIS.

Profuse-blooming little plants, with white, lilac-shaped flowers; exceedingly valuable for small beds, edging and rustic baskets or vases. Half-hardy perennials.....

NOLANA.

Very pretty trailing, hardy annuals; fine for rockwork, hanging baskets or for bedding. Select light, rich soil.

FINE MIXED.....	5
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**NASTURTIIUM.**

One of the most popular flowers of the present time, and constantly growing in favor. Is a rapid climber, of easiest culture, bearing beautifully colored flowers in profusion until killed by frost. Hardy annual.

The "K. & W." Mixed Varieties, both Tall and Dwarf, cannot be surpassed for brilliancy and variety of color. The plants, for about three months in the year, produce a lavish profusion of bloom, even through the hottest weather, and a trial of them is sure to give great satisfaction.

NASTURTIUM—Continued.**NASTURTIUM. (Tall.)**

Per Pkt.

COCCINEUM. Scarlet.....	5
DUNNETT'S ORANGE. Pure orange.....	5
EDUARD OTTO. Brownish lilac.....	5
HEINEMANNI. Chocolate color	5
PEARL. Creamy white	5
PRINCE HENRY. Cream, spotted and tipped scarlet	5
REGELIANUM. Purplish violet.....	5
SHELLINGH. Yellow spotted	5
SCHEUCRIANUM. Straw colored, spotted brown	5
VESUVIUS. Salmon-rose; an exquisite shade.....	5
VON MOLTKE. Dark rose	5
CRIMSON	5
SCARLET	5
YELLOW	5
VARIEGATED FOLIAGE. Mixed colors.....	5
IVY-LEAVED FOLIAGE. Leaves are an English ivy-leaved type, while the flowers are of a most delicate fringed formation. Mixed colors.....	5

"K. & W." Mixed Varieties.

1 lb.	½ lb.	¼ lb.	1 oz.	Pkt.
\$1.00	.60	.35	.10	5

COLLECTION OF 6 PKTS., 25

NASTURTIUM LOBBIANUM.

This class is remarkable for the intensely brilliant colors of its flowers, blooming most profusely, and is very useful for covering verandas, or for trellis and rustic work. Half-hardy annual.

MADAME GUNTER HYBRIDS. A French strain, noted for its fine colors	5
MARGUERITE. Pale yellow, flushed blood red	5
FINE MIXED	5

NASTURTIUM. (Dwarf.)

The dwarf improved varieties of nasturtium are among the most useful and beautiful of garden favorites for bedding, massing or ribboning. Hardy annuals.

BRONZE. Bronze-orange	5
CLOTH OF GOLD. Scarlet flowers and yellow foliage	5
CRYSTAL PALACE GEM. Sulphur, maroon blotches	5
EMPRESS OF INDIA. Fiery crimson, dark foliage.....	5
GOLDEN KING. Rich, golden yellow	5
KING THEODORE. Deep crimson maroon, dark foliage.....	5
KING OF TOM THUMBS. Dark scarlet, dark leaves.....	5
LADY BIRD. Orange-yellow; suffused with red and a bright red blotch at the base of the petals	5
RUBY KING. Rich crimson rose.....	5
SPOTTED. Golden yellow, spotted garnet. 5	
CRIMSON	5

NASTURTIUM.—Continued.

Per Pkt.

SCARLET.....	5
YELLOW	5
VARIEGATED FOLIAGE. Mixed colors	5
IVY-LEAVED FOLIAGE. Identical in style with the tall variety. Mixed colors.....	5
LILLIPUT. The most dwarf of all nasturtiums. Of compact growth with the bloom in a beautiful mass above the foliage; fine for potting and bedding	5

"K. & W." Mixed Varieties.

1 lb.	½ lb.	¼ lb.	1 oz.	Pkt.
\$1.00	.60	.35	.10	.05

COLLECTION OF 6 PKTS., 25

OXALIS.

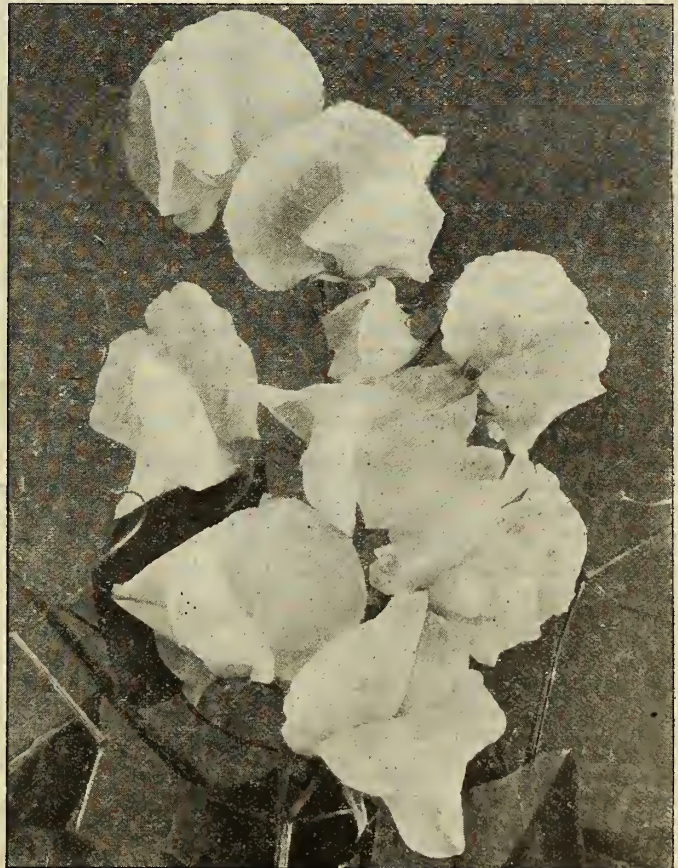
Elegant flowering plants, particularly adapted for the greenhouse or parlor, where they bloom in mid-winter.

FINE MIXED VARIETIES.....	10
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OENOTHERA. (Evening Primrose.)

A half-hardy annual and perennial, about six inches high, bearing bright, showy flowers in white, pale yellow, rose, etc. Of the easiest culture.

MIXED ANNUAL SORTS	5
MIXED PERENNIAL SORTS	5

**SWEET PEAS.**

SWEET PEAS.

Sweet peas are among the most desirable hardy annuals grown, being exceedingly beautiful and highly ornamental, and will grow and blossom well in any good garden soil. Select an open, sunny location, and sow as early as the ground can be worked in the spring, to enable the vines to get a good strong growth before the warm weather comes.

SUPERB FLOWERED.**SPENCER VARIETIES.**

The Waved or Spencer class represents a type of sweet pea the original of which, the Countess, is still the best and most popular pink. They are strong growers, bear long stems and very large blossoms, with usually four blossoms to a stem. The standard is large, round, and fluted or wavy on the edges. The wings, too, are large and more or less wavy, but not so much so as the standard.

The following named varieties constitute a list of many of the finest strains produced.

WHITE.

	Pkt.	Oz.
ENCHANTRESS. Fine pure white.....	10	20
KING WHITE. Giant white; the largest white Spencer type.....	10	20
WHITE SPENCER. Large pure white.....	10	20

PRIMROSE, CREAM OR IVORY.

MRS. C. W. BREADMORE. Primrose, with rose edge	10	20
PARADISE IVORY. Light primrose, tinted with pink	10	20

LIGHT PINK SHADES.

APPLE BLOSSOM. Rosy pink, blended with light blush.....	10	20
BEATRICE. Rosy pink and buff.....	10	20
COUNTESS. Fine pure, clear pink; very large.....	10	20

DEEP, BRIGHT PINK.

DAZZLER. Brilliant orange pink.....	10	20
ROSABELLE. Giant rosy pink.....	10	20
ST. GEORGE. Orange pink, nearly flame color....	10	20

ORANGE AND SALMON.

AGGIE ELDER. Bright salmon and cerise.....	10	20
GEORGE HERBERT. Rich orange carmine and magenta.....	10	20

SHADES OF RED.

AMERICA. Bright red, striped with white.....	10	20
SUNPROOF CRIMSON. Brilliant crimson; large....	10	20
KING EDWARD. Pure, deep red; very large.....	10	20
VERMILION BRILLIANT. Intense, bright scarlet....	10	20

EDGED.

BLUE PICOTEE. White, with blue edge.....	10	20
BOBBY K. White, with blush pink edge.....	10	20
DAINTY. White, with rose pink edge.....	10	20
MRS. C. W. BREADMORE. Primrose, with rose edge	10	20

LAVENDER SHADES.

ASTA OHN. Pinkish lavender.....	10	20
AFTERGLOW. Violet blue and rosy amethyst.....	10	20
AGRICOLA. Lavender and blush.....	10	20
FLORENCE NIGHTINGALE. Soft bluish lavender....	10	20
MASTERPIECE. Lavender, tinted mauve.....	10	20

SHADES OF BLUE.

MIDNIGHT. Indigo blue and violet; very dark....	10	20
ZEPHYR. Bright blue.....	10	20

PURPLE AND MAROON.

CHARLES FOSTER. Mauve and pink, shading light purple.....	10	20
FLORIE. Light purple and magenta.....	10	20
MARKS TEX. Purple.....	10	20
SENATOR. Chocolate, purple and grey striped.....	10	20
1 lb. ½ lb. ¼ lb.		
\$2.00 \$1.10 .60		

WHITE.**GRANDIFLORA TYPE.**

BLANCHE BURPEE. Pure white.....	5	10
DOROTHY ECKFORD. White; large shell-shaped..	5	10
EMILY HENDERSON. Large white.....	5	10
FLORENCE WRIGHT. Fine pure white.....	5	10
SHASTA. White; very large open form.....	5	10

PRIMROSE, CREAM OR IVORY.

HON. MRS. E. KENYON. Large primrose yellow..	5	10
QUEEN VICTORIA. Soft primrose yellow, tinged with blush.....	5	10

SWEET PEAS—Continued.**LIGHT PINK SHADES.**

	Pkt.	Oz.
APPLE BLOSSOM. Rosy pink, blended with light blush.....	5	10
AGNES ECKFORD. Very light soft pink.....	5	10
BLANCHE FERRY. Standards pink, wings white..	5	10
JANET SCOTT. Soft rosy pink and buff.....	5	10
JEANNIE GORDON. Bright rose, tinted primrose..	5	10
LOVELY. Deep pink, shading to light pink.....	5	10
PRIMA DONNA. Lovely shade of soft pink.....	5	10
QUEEN OF SPAIN. Buff pink.....	5	10

DEEP, BRIGHT PINK.

BOLTON'S PINK. Large orange pink.....	5	10
KATHERINE TRACY. Brilliant pink; large flowering.....	5	10
MISS WILLMOTT. Bright orange pink, shaded rose	5	10

ORANGE AND SALMON.

AURORA. Orange, rose and white.....	5	10
HENRY ECKFORD. Orange scarlet; large flowering	5	10
ROSE DU BARRI. Crimson and orange.....	5	10
SALOPIAN. Deep crimson and orange scarlet.....	5	10
ORIENTAL. Cream, veined with salmon and chocolate red.....	5	10

SHADES OF RED.

COCINEA. Cherry red.....	5	10
KING EDWARD VII. Pure, deep red.....	5	10
PRINCE OF WALES. Bright rose and crimson.....	5	10
QUEEN ALEXANDRA. Deep scarlet; large.....	5	10

EDGED.

DAINTY. White, with pink edge.....	5	10
STELLA MORSE. Deep cream, with blush-pink edge	5	10

LAVENDER SHADES.

COUNTESS OF CADOGAN. Lilac and blue.....	5	10
COUNTESS OF RADNOR. Pale lavender.....	5	10
LADY GRISEL HAMILTON. Pure lavender.....	5	10
LOTTIE ECKFORD. Lilac, blue and white.....	5	10

SHADES OF BLUE.

CAPTAIN OF THE BLUES. Bright blue and light purple.....	5	10
FLORA NORTON. Bright blue.....	5	10
HELEN PIERCE. Blue with dark markings.....	5	10
LORD NELSON. Deep navy blue; brilliant color...	5	10
MRS. GEORGE HIGGINSON, JR. Delicate azure blue	5	10
NAVY BLUE. Indigo blue and violet.....	5	10

PURPLE AND MAROON.

BLACK KNIGHT. Deep maroon.....	5	10
DUKE OF WESTMINSTER. Deep purple.....	5	10
MRS. WALTER WRIGHT. Rose purple and mauve.	5	10
OTHELLO. Dark, glossy maroon.....	5	10
ROMOLA PIAZZANI. Large, light purple.....	5	10

"K. & W." CHOICE MIXED. This magnificent assortment is a mixture of the finest varieties produced, the flowers being of the largest sorts, and so combined as to give the most delightful harmony of colors.

1 lb.	½ lb.	¼ lb.
.65	.35	.20

EARLY FLOWERING OR CHRISTMAS VARIETIES.

EXTRA EARLY BLANCHE FERRY. Carmine and white	5	15
LE MARQUIS. Navy blue.....	5	15
MRS. ALEX. WALLACE. Pinkish lavender.....	5	15
MRS. C. H. TOTTY. Lavender.....	5	15
MRS. E. WILDE. Crimson rose.....	5	15
MRS. F. J. DOLANSKEY. Light pink.....	5	15
1 lb. ½ lb. ¼ lb.		
\$1.25 .75 .40		

PRICES FOR ANY OF THE ABOVE FIVE-CENT PACKAGES: 6 pkts. for 25c; 12 pkts. for 40c.

SWEET PEAS—Continued.**NEW BUSH SWEET PEAS.**

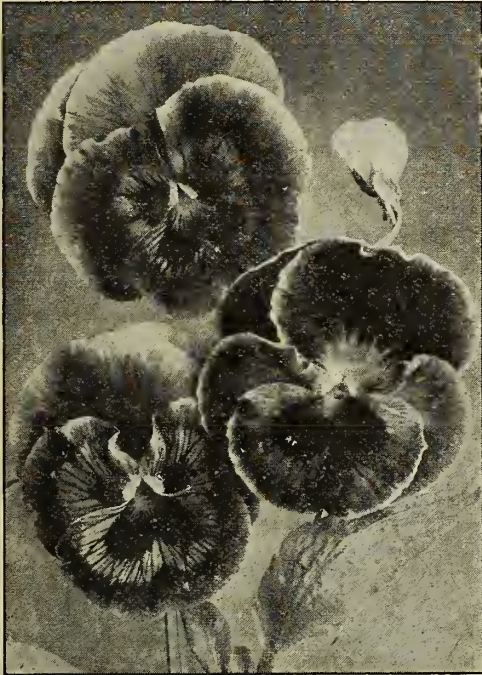
Pkt. Oz.

Grow in perfect bush form, sixteen to eighteen inches high, producing flowers of large size..... 5 10

EVERLASTING SWEET PEAS.

FINE MIXED..... 5 10

Full flowering season is greatly extended by inoculating sweet peas with Farmogerm. See page 45.

**PANSY.**

Per Pkt.

A well-known and universal favorite. Prefers a moist, shady situation; cover during the winter months. Seeds sown in August or September, kept in a cold frame through the winter and planted out in the spring, will blossom the whole season. Hardy perennial.

CARTER'S PRIZE. Extra choice strain; very large flowers and choice colors..... 15

GIANT FIVE-SPOTTED. Enormous flowers of perfect symmetry; beautifully blotched with the richest deep velvety plum-crimson, bordered with white and various colors.... 15

CARTER'S PEACOCK. Unique flowers of marvelous beauty, the upper petals being of a beautiful ultra-marine blue, resembling in shade the peacock feather..... 10

GIANT STRIPED. The perfection of all the striped varieties. 15

GIANT TRIMARDEAU. Mixed..... 10

BUGNOT. A French variety, of large size, beautiful colors, handsome broad blotches, finely penciled with stripes of delicate hue..... 15

KING OF THE BLACKS. Velvety jet black..... 10

ODIER. Finest blotched..... 10

BLUE. Beautiful light blue..... 10

YELLOW. Pure golden yellow..... 10

PURPLE. Dark, rich purple..... 10

WHITE. Pure white; dark eye..... 10

"K. & W." EXTRA CHOICE MIXED. Superb mixture of finest large flowered varieties..... 10

FINE MIXED..... 5

PASSION FLOWER.

A splendid class of climbers, with curious flowers produced in great profusion; fine for conservatory or will answer for the garden, flowering freely during the autumn.

FINE MIXED..... 10

PERILLA NANKINENSIS.

An annual, growing from two to two and one-half feet; stems branching, well covered with an ample foliage of a dark purple, almost black..... 5

PETUNIA.

Per Pkt.

Favorite, hardy annuals, succeeding well in any rich soil. For the brilliancy and variety of their colors, their abundance of flowers and the long duration of their blooming period, they are indispensable in any garden.

DOUBLE FRINGED. Extremely double, edges finely fringed, petals fluted and crinkled, unmatched by crumpled velvet, which the flowers resemble. 25

SINGLE FRINGED. Choicest fringed sorts..... 15



PETUNIA.

CALIFORNIA GIANTS. A strain of incomparable beauty, size and luxuriance. The flowers are exquisitely ruffled or fringed on the edges, and are enormous..... 25

CARTER'S EMPRESS. Crimson shaded, with lovely penciled throat. Blossoms of grand size and form..... 15

CLEMATIS FLOWERED. Resembling in form the well-known Clematis Jackmanni; dark and light blue..... 15

WHITE. Single, large, pure white..... 5

FINE MIXED. Single varieties..... 5

PHLOX DRUMMONDI.

The flowers are of extreme beauty, and are greatly admired by all. Their long duration in bloom, combined with their almost unequal richness of color, make them invaluable in the general flower garden. Hardy annuals.

PURE WHITE..... 5

PURE DEEP SCARLET..... 5

ROSE..... 5

YELLOW..... 5

CRIMSON..... 5

FINEST MIXED. Ounce \$1.00.. 5

HARDY PERENNIAL.

Fine mixed varieties..... 10



PHLOX.

PINK. (Dianthus.)

One of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom.

CARNATION. A magnificent class of popular flowers, very fragrant, and of rich and beautiful colors. Hardy perennial..... 10

HEDDEWIGI. Flowers very large, and of rich and brilliant color. Hardy annual... 10

CHINESE. Splendid double mixed 5



HEDDEWIGI PINK.

PINK--Continued.

Per Pkt.

CARNATION "MARGUERITE". Very early, and when sown in the spring will bloom in July or August and continue until frost, or may be potted to bloom during the winter in the house. Many of the flowers are double, and are finely fringed and fragrant.

WHITE. Large, perfect flowers.....	10
YELLOW Clear, soft yellow.....	10
GIANT MIXED. Extra large, flowering profusely, in brightest colors.....	10

POLYANTHUS.

Showy and profuse-flowering, hardy perennial, about one foot high, blooming in June and July.

FINEST MIXED	10
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POPPY.

ADMIRAL POPPY.

Brilliant and showy, hardy annual, growing freely in any garden soil. Sow as early in spring as the weather will permit at intervals for a succession. Barely cover seed; **PRESS DOWN FIRMLY**, and when up thin to six inches apart. 2 ft.

ADMIRAL. Single, peony-flowered variety. Glistening pure white, with scarlet band around the top; very handsome.	10
CARDINAL. Dark foliage, deeply cut; very double flowers. Color vivid scarlet on white ground.....	5
ICELAND. The colors range from pure white and yellow to the deepest orange-scarlet. Hardy perennial, blooming the first year from seed	5
MIKADO. Double white, fringed flowers, purple margins....	5
ORIENTALE. (Perennial.) Crimson flowers with black blotch	10
PEACOCK. Cup-shaped, crimson blossoms, with ring of black at the base of the petals; equally good for pots or borders.	10
TULIP. Grows twelve to fourteen inches high, and produces well above the foliage fifty to sixty large flowers of the most brilliant scarlet	5
WHITE SWAN. The acme of perfection in double poppies. The profusely produced blossoms are perfectly formed, and the purity of their color is beyond reproach.....	10
DOUBLE SCARLET.....	5
FINE DOUBLE MIXED.....	5
SHIRLEY. Beautiful strain of single mixed poppies; bright, delicate colors; fine for cutting	5

PORTULACA.

Per Pkt.



PORTULACA.

Very popular, low-growing, hardy annuals, making a most brilliant display in the garden, and very suitable for borders or edgings. Sow early in warm, light, rich soil and thin plants to four inches.

SINGLE CRIMSON ..	5
SINGLE SCARLET...	5
SINGLE WHITE	5
SINGLE YELLOW...	5
SINGLE, ALL COLORS MIXED	5
DOUBLE FINEST MIXED.....	10

PRIMULA. (Chinese Primrose.)

These are beautiful and desirable plants for the parlor and greenhouse, and produce a constant succession of their charming flowers all through the winter and spring. The seeds may be sown at any time from January to July, in pots, using a light soil.

SINENSIS. White fringed.....	25
SINENSIS. Crimson.....	25
EXTRA FINE MIXED	25
DOUBLE EXTRA MIXED.	50

PRINCE'S FEATHER.

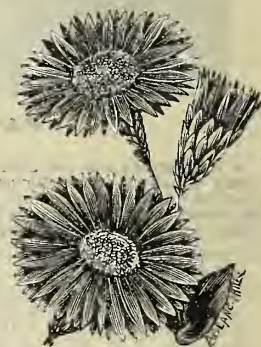
Ornamental plants, with elegant plumes of rich colored flowers.

LARGE FLOWERED. Crimson; 2 ft.	5
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RHODANTHE.

A well-known everlasting; valuable for the decoration of the conservatory and flower garden; fine for bedding or ribboning. The flowers, if gathered when young, make valuable winter bouquets; succeed best in a light, rich soil and a warm, sheltered situation. Half-hardy annual; 1½ ft.

FINE MIXED	5
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RHODANTHE.

RICINUS. (Castor Bean.)

Plants with very ornamental foliage and showy fruit and quite a tropical appearance. With other ornamental-leaved plants, they make a most attractive bed on the lawn, and are also desirable when grown as single specimens. Half-hardy annuals.

BARBONENSIS ARBOREUS. Beautiful, large green foliage; 15 ft.	5
CAMBODGENSIS. Dark foliage; black stem; 9 feet.	5
SANGUINEUS. Scarlet fruited; 10 ft.....	5
ZANZIBARIENSIS. Immense, dark green foliage; 12 ft.....	5
MIXED VARIETIES	5



RICINUS.

ROSE CAMPION.

Per Pkt.

The rose campion is perfectly hardy and very easily raised from seed. The flowers are produced on long stems, blooming freely throughout the season. Hardy perennials.

FINE MIXED 5

RUDBECKIA. (Cone Flower.)

Showy, hardy perennial, suitable for borders or clumps among shrubs.

AMPLEXICAULIS. Golden yellow; 3 ft. 5



SALPIGLOSSIS.

SALPIGLOSSIS.

Very beautiful, rich, half-hardy annuals, one and one-half feet high. Start early in the hot-bed and transplant to light, warm, rich soil. Blooms from July to September.

FINE MIXED 10

SALVIA.

Very ornamental, producing tall spikes of brilliant flowers. Start early in hot-beds and transplant two feet apart. Half-hardy annual.

SPLENDENS. Brilliant scarlet flowers 10

GLORY OF STUTTGART. Brilliant scarlet, large bouquet 10

BONFIRE. Early dwarf scarlet 10



SALVIA.

SCHIZANTHUS.

Tender annual, one to one and one-half feet high, blooming from August to October. Fine for pot culture.

FINE MIXED 5

SHASTA DAISY.

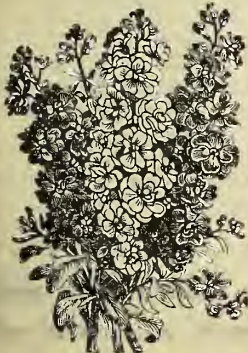
Large white flowers; free blooming; fine for cutting 10

SENSITIVE PLANT.

A pretty, curious annual, being so sensitive that the leaves close together at the slightest touch 5

SMILAX.

A beautiful winter climbing plant, adapted to the conservatory. Nothing can excel this plant in beauty of foliage and orange fragrance of the flower. Extensively used for bouquets and floral decorations of every description 5



STOCKS.

STOCKS.

Half-hardy annual, producing splendid spikes of very rich and beautiful flowers of delightful fragrance. For early flowering sow early in the spring, in pots or in the hot-bed, and transplant one foot apart. Blooms from June until October.

STOCKS—Continued.

Per Pkt.

PRINCESS ALICE (White Perpetual). "Cut and Come Again." Of fine branching habit, growing to the height of eighteen inches. Large, double flowers, of rosette-like form. Fine for forcing 10

"CUT AND COME AGAIN." Finest mixed 10

BEAUTY OF NICE. Handsome winter flowering stock of quick growth, with flowers of large size and very double. Color, daybreak pink. Flowers in from twelve to fifteen weeks from seed-sowing 10

QUEEN ALEXANDRA. Same type as Beauty of Nice, flowers delicate rosy lilac, of great beauty, and of exceptionally high value for cut bloom, market and bouquet work. The percentage of double flowering plants is very large.. 10

SNOWFLAKE. A dwarf variety, with large, double, snow-white flowers; fine for pot culture; very early 10

WHITE. Ten weeks, double 10

PURPLE. Ten weeks, double 10

SCARLET. Ten weeks, double 10

MIXED. Ten weeks, double 10

SUNFLOWER.

Well-known, showy plants; remarkable for their rapid and stately growth and the large size and brilliancy of their flowers.

CALIFORNIA. Double, bright yellow flowers 5

MAMMOTH RUSSIAN. Very large flowers 5

NEW MINIATURE. An improvement on the miniature. Covered with hundreds of brightest orange flowers. The blooms are of a variety of shades, sizes and shapes of petals 5

SPHENOZYNE.

A very showy, free-blooming plant, with yellow flowers. Very effective for beds or mixed borders. Hardy annual.... 5

SWEET ROCKET.

Fine early spring flowering plant, very fragrant, growing in any soil. About eighteen inches in height.

FINE MIXED 5

SWEET SULTAN.

Showy, hardy annual, one or two feet high, succeeding well in any soil.

FINE MIXED 5

SWEET WILLIAM.

A well-known, showy and beautiful hardy perennial, about one foot high, making a most splendid appearance in May and June.

HUNT'S PERFECTION. Mixed variety, large, bright-colored flowers.. 5



SWEET WILLIAM

SWEET CLOVER.

Per Pkt.

A half-hardy perennial, much resembling the common red clover, and valuable for its fragrance..... 5

TASSEL FLOWER.

A beautiful, half-hardy annual, with small, tassel-like flowers, blooming profusely from July to October.

SCARLET..... 5

THUNBERGIA.

Very ornamental, trailing, half-hardy annual, admirably adapted for trellis or rustic work, or for the conservatory.

FINE MIXED..... 10

VERBENA.

VERBENA.

Well-known and universally popular bedding plant, blooming all summer. Plants grown from seed are more healthy and make larger and harder plants than those from cuttings. If sown in spring will flower quite early. Half-hardy perennial.

CANDIDISSIMA. Pure white..... 10

SCARLET DEFIANCE. Brightest scarlet.... 10

MAMMOTH FINEST MIXED..... 10

FINE MIXED..... 5

LEMON VERBENA. Lemon-scented foliage..... 10

VIOLA ODORATA. (Sweet Violet.)

A charming little perennial, highly prized on account of its delicious fragrance. Succeeds best in a sheltered location..... 10

VISCARIA.

Very pretty, profuse-flowering, half-hardy annual, producing a fine effect in beds or mixed borders, and growing readily in any soil.

FINE MIXED..... 5

WALLFLOWER.

Very fragrant and ornamental, half-hardy perennial, suitable for background and amongst shrubbery.

FINE MIXED..... 5



WHITLAVIA.

WHITLAVIA.

Per Pkt.

Charming, hardy annual, with delicate foliage and clusters of beautiful, bell-shaped flowers; fine for ribboning or mixed borders; 1 ft.

FINE MIXED..... 5

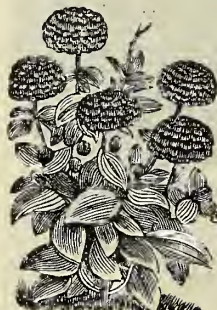
WILD CUCUMBER VINE.

A very rapid-growing climber which reaches a height of fifteen or twenty feet during the season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will quickly cover a trellis, pillar or an unsightly building, and will reproduce itself from self-sown seed every year. Soak seed over night in warm water. Hardy annual..... 5

ZEA. (Japanese Maize.)

An ornamental foliage plant. Grows to the height of four or five feet, furnished from the bottom with long, wavy leaves, broadly ribboned with alternate stripes of white and green.

STRIPED..... 5



DOUBLE ZINNIA.

ZINNIA.

A most splendid class of hardy annuals, and one of the finest summer flowering plants. The flowers are large, handsome, and in a very great variety of colors, blooming throughout the whole season. Start early in pots or under glass and transplant one foot apart.

HAAGEANA. Double, orange; 1 ft..... 5

CURLED AND CRESTED..... 5

DOUBLE GIANT MIXED..... 5

WILD GARDEN SEED.

A mixture of over one hundred varieties of flower seeds..... 5

SPECIAL \$1.00 OFFER

..CONSISTING OF..

35-5c. Pkts., or 18-10c. Pkts.

Packages may be selected by the purchaser from any varieties (both flower and vegetable seeds) found in our catalog, and same will be sent by mail, on receipt of price.



A GENERAL LIST OF VEGETABLE SEEDS

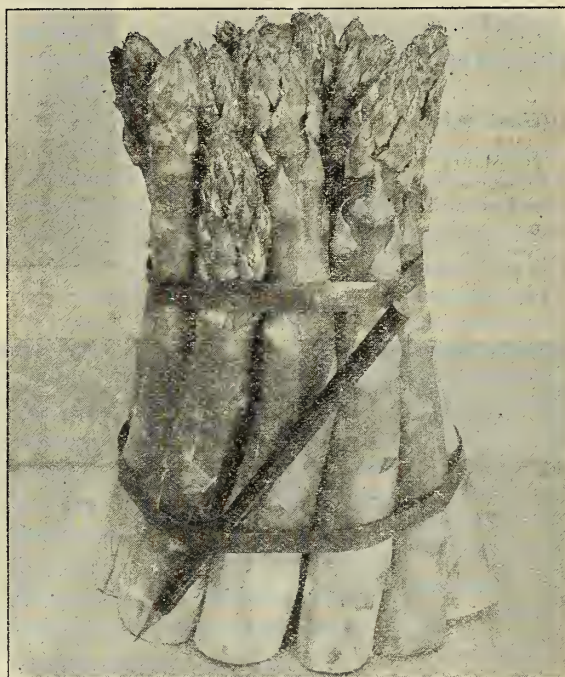
We forward seeds by **Mail, Express or Freight** as the purchaser may wish. When ordered by mail, add postage for beans, corn and peas at the rate of six cents per quart to catalog prices, and for larger shipments by mail, see Parcel Post rates on page 3 of this catalog.

ASPARAGUS.

One ounce will produce about 200 plants; 4 to 5 pounds to the acre.

Sow early in May, thinly, in rows one inch deep and two feet apart. The next season plant in drills two inches deep and two feet apart, spreading the roots well out in ground thoroughly manured and trenched, at least two feet deep.

	Pkt.	Oz.	¼ lb.	Lb.
Palmetto. Early, prolific and uniformly of large growth.....	.05	.10	.20	.60
Conover's Colossal. Large and productive, a very desirable variety....	.05	.10	.15	.40
Conover's Colossal Roots. Two years old, per 100, \$1.50.				



ASPARAGUS.

BEANS—Dwarf or Bush.

A succession of sowings can be made from the first week in May until August. Plant in drills about two inches deep, and from eighteen inches to two feet apart, according to the richness of the soil; the poorer the soil the closer they can be planted; the plants should be about three inches apart.

One quart is sufficient for 100 feet of drill; 1½ bushels for one acre in drills.

Beans ordered by mail are subject to an extra charge of six cents per quart for postage. Pints furnished at quart rates. For larger shipments by mail, see rates on page 3 of this catalog.

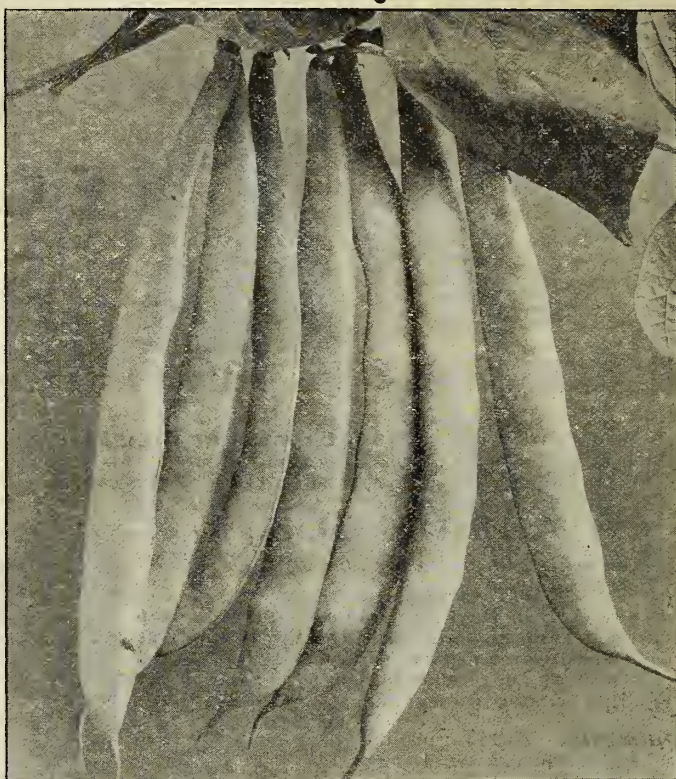
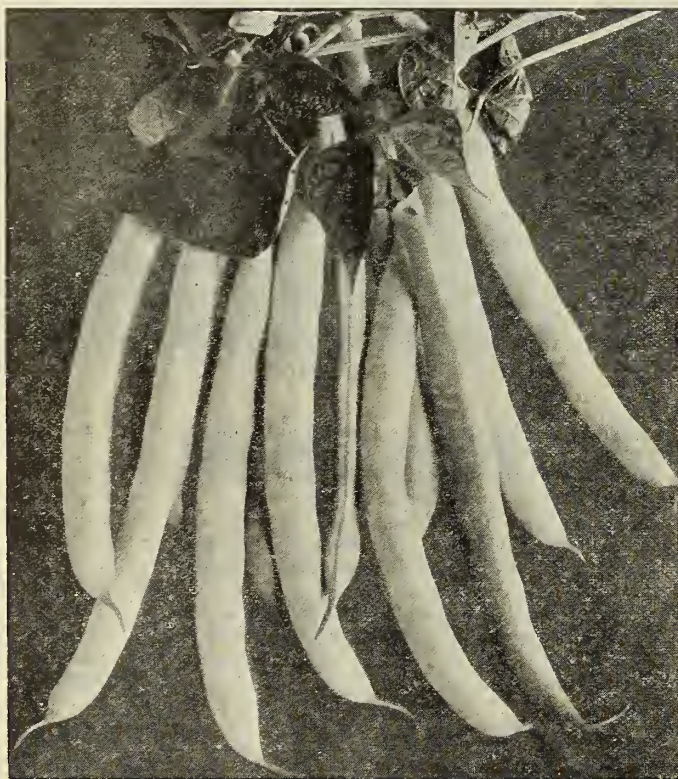
	Pkt.	Qt.	Pk.
Broad Windsor. (English beans.) Plant as early in the spring as the ground can be worked, from two to four inches apart, in drills from twenty-four to thirty inches apart. As soon as the plants are in full blossom, and the lower pods begin to set, pinch off the tops; this will insure the filling of the pods and hasten the maturity of the seed.....	.10	.35	\$1.75
Burpee's Bush Lima. The only bush form of the true large Lima bean. The plants grow eighteen to twenty inches high. Is an immense yielder of handsome, large pods, well filled with very large beans, which are identical in size and luscious flavor to the well-known large pole Lima.....	.35	\$2.50	\$8.50
Burpee's Stringless Green Pod. Very early. Pods four and a half to five and a half inches long, nearly round, slightly curved, light green in color, flesh tender and of the best quality.....	.35	2.50	
Early Long Yellow Six Weeks. Hardy and prolific.....	.35	2.50	
Early Valentine. Round pods, early, good flavor.....	.35	2.50	
Early Mohawk. Very productive and of good quality.....	.35	2.50	
Dwarf Horticultural. A fine early shell bean.....	.35	2.50	
Goddard, or Boston Favorite. A larger, later Dwarf Horticultural type.....	.35	2.50	

BEANS—Continued.

	Qt.	Pk.	Bu.
Garland. Superior early shell bean, very productive; similar in color to Low's Champion, the seed being much larger and longer.....	.30	1.75	6.25

Low's Champion. Early, hardy, thrifty and enormously productive; combines extreme tenderness and delicious flavor, being absolutely without strings to the pods, and excels many other varieties as a snap or string bean. As a shell bean it has but few equals, and is of splendid flavor when cooked dry30	1.75	5.50
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Milliken's Wax. An extra early variety. The plants grow from twelve to sixteen inches high, producing golden yellow pods that are entirely stringless and very prolific.....	.40	3.00	
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**GREEN PODDED BUSH BEANS.****WAX PODDED BUSH BEANS.**

Wardwell's Kidney Wax. Hardy and vigorous vine, producing a heavy crop of handsome yellow pods, stringless and brittle. Beans large, kidney shaped.....	.40	3.00
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Early Golden-Eyed Wax. Hardy and prolific, with flat, yellow pods40	3.00
--	-----	------

Brittle Wax. One of the earliest wax beans. Pods fleshy, entirely stringless, and of fine quality. Very hardy and prolific.....	.40	3.00
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Michigan White Wax. Pods and seeds white and of rich flavor.....	.40	3.00
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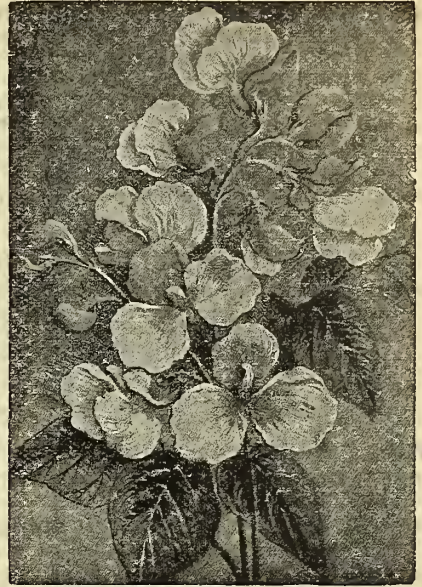
Golden Wax. Very early; round, golden pods40	3.00
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Black Wax. Pods yellow; a superior snap bean40	3.00
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Currie's Rust-Proof Wax. Pods long, flat, tender and of fine quality.....	.40	3.00
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BEANS—Continued.

	Qt.	Pk.	Bu.
Snowflake Pea. A decided improvement on the common pea bean. Productive and very early.....	.25	\$1.35	\$4.75
Sulphur Pea. Larger than the white pea bean; golden yellow color; early and of fine quality .....	.25	1.50	5.25
Yellow Eye. Improved; heavy yielder; fine quality .....	.25	1.50	5.25
Yellow Eye. Old-fashioned type. Very prolific; fine for baking .....	.25	1.50	5.25
Jacob's Cattle. So called from the color of the dry bean, which is white, marked with red spots and blotches; excellent for baking .....	.25	1.50	5.25
Red Kidney. Excellent as a shell bean and for baking .....	.25	1.50	5.25



FLOWERING BEANS.

BEANS—Pole or Running.

The planting of the various sorts of pole beans should be delayed a week or more after the first planting of the early dwarf sorts. They succeed best in sandy loam, which should be liberally enriched with short manure in the hills, which are formed, according to the variety, from three to four feet apart; from five to six seeds are planted in each hill, about two inches deep.

One quart will plant 150 hills; 10 to 12 quarts to the acre.

KING HORTICULTURAL.

An early, robust grower, the pods being large, stringless, and bright carmine. Tender and of delicious flavor.
Qt., 35c.; Pk., \$1.85; Bu., \$7.00

	Qt.	Pk.	Bu.
London Horticultural. An old favorite. Very productive and excellent as a snap or shell bean .....	.25	\$1.75	\$6.25
Red Cranberry. Almost stringless; one of the very best of string beans .....	.25	1.75	6.25
Lazy Wife's. Abundantly productive, and of excellent flavor, with long, green, fleshy and stringless pods .....	.30	2.25	8.00
Kentucky Wonder. Very productive, and of fine quality. Entirely stringless pods, of a silvery green color .....	.30	2.25	8.00
Indian Chief, or Black Wax. A very tender snap bean; yellow pods .....	.50		
White Case Knife. Good green-podded variety .....	.25	1.75	6.50
Large Lima. A large, late variety of excellent flavor .....	.35	2.25	7.50
Small Lima. Earlier and hardier than the preceding .....	.35	2.25	7.50

FLOWERING BEANS.

Valuable for use on trellises and arbors, being highly ornamental and free climbers; plants are of strong, quick growth, bearing large sprays of handsome flowers.

	Pkt.	Qt.
Scarlet Runner. Very ornamental, bright scarlet flowers .....	.05	.35
White Runner. Similar to above, flowers being white .....	.05	.35

Inoculate Beans with Farmogerm, to secure full pods and rich flavor. See page 45.

BEET.

The best results are obtained on a deep, rich, sandy loam. For early use sow as soon as the ground will admit, in drills fourteen inches apart, and thin to four inches; for the main crop, sow the first week in May, and for winter use as late as June. The soil should be deeply manured and well cultivated. In lifting and storing the roots, care must be taken that they are not bruised.

One ounce to 50 feet of drill; 6 pounds to the acre.

	Pkt.	Oz.	¼ lb.	Lb.
Dirigo Extra Early. A rich, blood-red beet of fine grain and flavor, earlier than the Egyptian or the Eclipse .....	.05	.10	.25	.75
Egyptian Blood Turnip. Very early and of rapid growth; color, deep crimson; of excellent quality .....	.05	.10	.20	.60
Crosby's Egyptian. An improved strain of the Egyptian beet .....	.05	.10	.25	.75
Eclipse. This variety is about as early as the Egyptian, but larger and of finer quality; color, dark crimson .....	.05	.10	.20	.60
Edmand's Early Turnip. A variety of handsome round shape. The skin is deep blood red in color, the flesh very dark and exceedingly sweet and tender in quality ..	.05	.10	.20	.60

BEET—Continued.

CRIMSON GLOBE. Remarkable for its smooth skin and fine shape. Is a second early variety, does not grow large and coarse, the matured beets being medium in size. The flesh and skin are both very dark and of fine quality, being sweet and tender. The tops are small and dark in color....

Dewing's Blood Turnip. Of fine form and flavor, blood red; a desirable variety.....

Detroit Dark Red. Similar in shape to the Dewing's, of dark red color, with small tops.....

SWISS CHARD (or Spinach Beet).

Swiss Chard (Lucullus). The leaves of Swiss chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. The "Lucullus" is the largest and best variety of Swiss chard.....

Varieties grown for feeding stock. Sow in May or June—5 pounds per acre.

White French Sugar Beet. Largely cultivated for feeding stock..

Lane's Imperial Sugar Beet. A greatly improved variety of the White French Sugar.....

Allen's Mammoth Long Red Mangel Wurzel. A variety producing roots of mammoth size.....

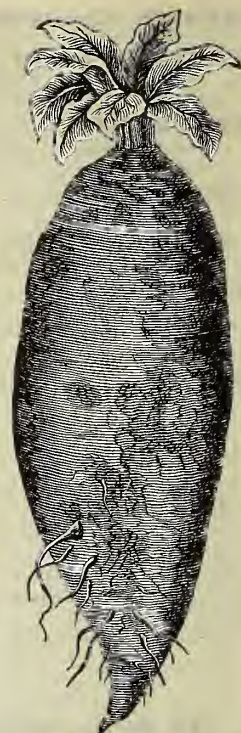
Norbiton Giant Mangel Wurzel. Extra fine long red; very large.....

Yellow Globe Mangel Wurzel. Roots of large size and globular form; very productive.....

Carter's Warden Orange Globe Mangel Wurzel. One of the best globe-shaped variety.....

Golden Tankard Mangel Wurzel. Bright yellow; very productive.....

Kelway's Best of All. An improvement on existing stocks of Yellow Mangels, being one of the heaviest croppers and easiest pulled, and is of very fine quality. Shape between Mammoth and Tankard; beautiful pale yellow skin with fine top.....



ALLEN'S MAMMOTH
LONG RED MANGEL
WURZEL.

BROCCOLI.

Broccoli is nearly allied to the cauliflower, and may be regarded as a variety of that delicious vegetable. It is hardy and sure to head, but inferior in flavor.

One ounce of seed will produce about 2,000 plants.

Purple Cape. Heads greenish purple; medium size and compact.....

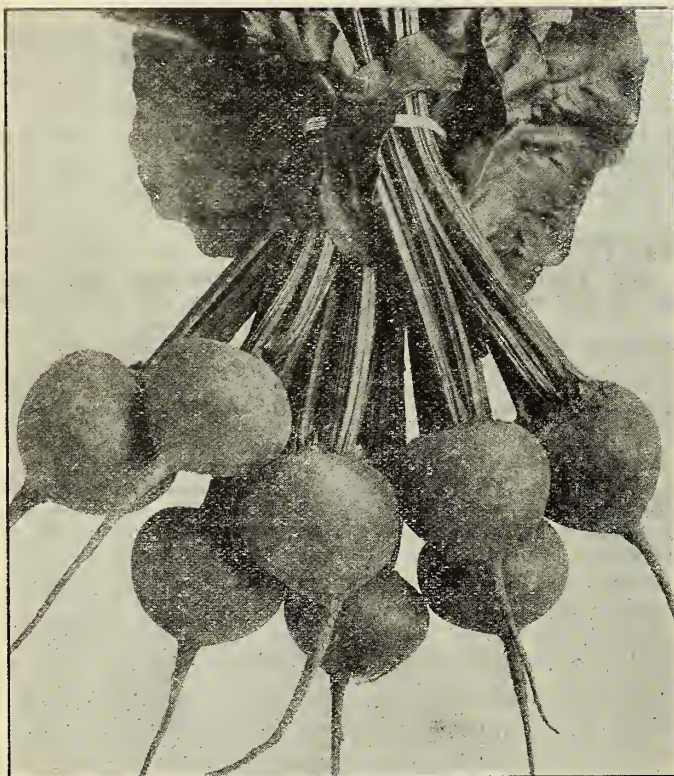
White Cape. Large, creamy-white; sure to head; standard sort.....

BRUSSELS SPROUTS.

A species of the cabbage family producing along the whole length of the stem small sprouts resembling miniature cabbages. These heads are a great delicacy boiled in the same way as cauliflower. Seed should be sown about the middle of May in a seed bed, and the plants afterwards set out in rows two feet apart and cultivated and managed as winter cabbage.

One ounce will produce about 2,500 plants.

Improved Long Island. A variety of excellent quality..



DETROIT DARK RED BEET.

CABBAGE.

The cabbage is one of the most important vegetables, and some of its varieties are universally cultivated. The ground must be highly manured, deeply dug or ploughed, and thoroughly worked, to insure good, full-sized heads. A heavy, moist and fresh loam is the most suitable. The early sorts should be sown very early in the spring, in hot-beds, or later in the open ground. Eighteen inches by three feet apart is the common distance.

One ounce will produce about 3,000 plants; 4 to 5 oz. to the acre.

COPENHAGEN MARKET. One of the best large, round head, early cabbages in cultivation, the type being thoroughly fixed and nearly all the heads maturing at the same time. The plant is short-stemmed; heads set near the ground, are very solid, with a small core, and of fine quality. One of the very best early cabbages for market gardeners.....

Pkt. Oz. ¼ lb. Lb.

Early Jersey Wakefield. A standard early variety for home use or market.....

Charleston Wakefield. Resembles the Jersey Wakefield, heads larger and more uniform.....

Henderson's Early Summer. One of the earliest of large cabbages, coming in but a few days later than the Wakefield; heads of large size, very solid and compact.....

Columbia. Very early and compact. Is hardy and vigorous; produces splendid solid heads, of marketable size, and is recommended as one of the most desirable summer varieties.....

Early Spring. Short-stemmed, round, flat-headed, early variety. Solid and uniform in growth.....

Early Winningstadt. An excellent sort; heads of large size.....

All Seasons. Larger than Henderson's Early Summer, nearly as early; very solid and sure heading.....

Fottler's Improved Brunswick. An excellent early Drumhead variety; produces a firm and solid head.....

Premium Flat Dutch. A standard late variety.....

Stone-Mason Drumhead. One of the best for a main crop.....

STONE-MASON DRUMHEAD. Cape Elizabeth grown. A great improvement on the above; medium-sized, round, hard head. An excellent winter variety.....

Henderson's Succession. An excellent second-early or late sort.....

Marblehead Mammoth Drumhead. The largest variety of Drumheads.....

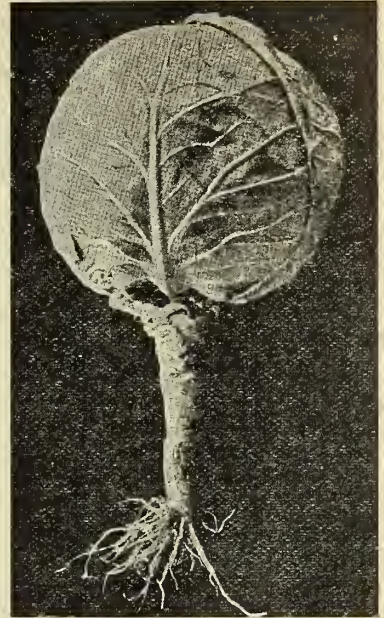
Danish Ball Head (Imported). Heads round and solid. A good winter variety..

DANISH BALL HEAD, OR HOLLANDER. Cape Elizabeth grown. A valuable, round, solid winter variety. Is a long keeper, and profitable for shipping, keeping long after other sorts have gone.....

Improved American Savoy. Very sweet and tender; good-sized, firm heads; very reliable and much esteemed for family use.....

Pe-Tsai (Chinese Cabbage). Grows similar to Cos lettuce.....

Mammoth Red Rock. Used almost exclusively for pickling.....



COPENHAGEN MARKET CABBAGE.



DANISH BALL HEAD CABBAGE.

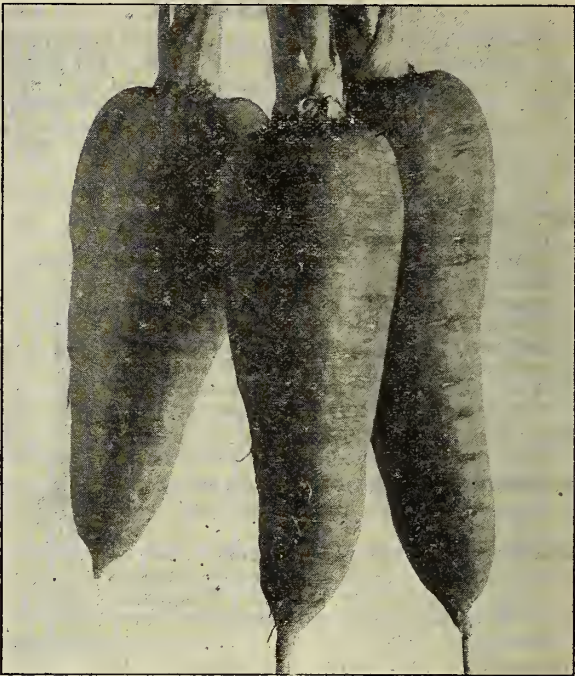
CARROT.

Carrots require a very finely pulverized soil to grow them to perfection. A good, light and well-enriched sandy loam is the best for this crop. For field culture, sow in drills, three to three and one-half feet apart, and for table use sow the smaller varieties in rows sixteen to eighteen inches apart. For early crops, cover one-half an inch deep, and thin to three inches apart in the rows; for late, cover three-fourths of an inch deep, and thin to four inches.

One ounce to 100 feet of drill ; 3 to 4 pounds to the acre. Pkt. Oz. ¼ lb. Lb.

Early French Forcing. The earliest variety; valuable for forcing....	.05	.10	.30	\$1.00
Early Horn. Early, fine grain, medium size; an excellent table sort....	.05.	.10	.30	1.00
EARLY MARKET. A thick stump-rooted early variety of brilliant color, broad at the top, gradually getting smaller towards the root, which is blunt. An excellent market sort.....	.05	.10	.30	1.00

Nantes. Early, roots almost cylindrical, very smooth and grow about six inches long; the flesh is entirely red, very sweet, and almost entirely without a core.....	.05	.15	.50	1.75
Oxheart. Very thick and short, fine grained and sweet .....	.05	.10	.30	1.00
Chantenay. A choice variety; longer than the Scarlet Horn, and a little broader at the top.....	.05	.10	.30	1.00
Danver's Half Long In form it is midway between the Long Orange and Short Horn. The root is of a rich, dark orange color and grows very smooth. Very productive and keeps well.....	.05	.10	.30	1.00
Improved Long Orange. The best late variety. Roots of large size, heavy cropper; an excellent keeper.....	.05	.10	.25	.85
Large White Belgian. Large, long-rooted variety; valuable for feeding stock.....	.05	.10	.15	.50



DANVER'S HALF LONG CARROT.



GILT-EDGE CAULIFLOWER.

CAULIFLOWER.

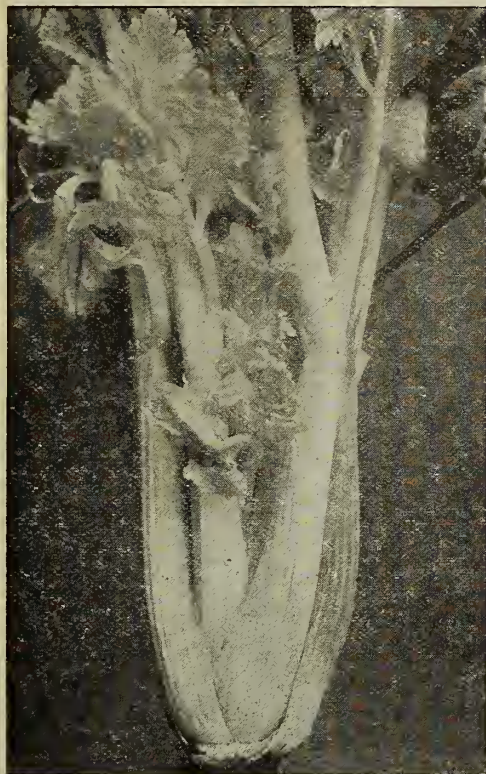
Any soil that will grow early cabbages will grow cauliflower, as their requirements are almost similar, but as the product is more valuable, extra manuring and preparation of the soil will be well repaid.

The seeds may be sown in the hot-bed in March or April, and transplanted to open ground about the first of May.

One ounce will produce about 2,500 plants.

Extra Early Dwarf Erfurt. The earliest variety; large, compact heads, of fine quality.....	Pkt.	Oz.	
	.15		\$2.00
Henderson's Early Snowball. One of the best early sorts. Very reliable and grown largely for the market.....	.15		2.00
GILT EDGE. Large, heavy sort; one of the best and surest of all the sorts now in cultivation .....	.15		2.25
Carter's Dwarf Mammoth. A hardy variety, of dwarf and compact habit, with a firm white head; stands dry weather.....	.15		2.00
Carter's Autumn Giant. A large late variety.....	.10		.50

CELERY.



GOLDEN SELF-BLANCHING CELERY.

To have celery early it should be sown in a hot-bed, quite early in the spring, and when three inches high plant out in a well-prepared bed, which must be covered in frosty weather. For the principal crop sow early in the spring, very shallow in the seed-bed, and when the plants are about six inches high transplant them six inches apart into trenches for blanching. Dig the trenches four feet apart, a foot wide and ten inches deep. Fill in five or six inches of well-rotted manure, and mix thoroughly half a spade deep with the earth at the bottom. The tops of the plants should be shortened before they are set. Earth up to blanch three or four times during their growth, taking care that no earth falls in the center of the plant.

One ounce of seed produces about 4,000 plants.

Boston Market. A favorite variety, remarkable for its tender, crisp and succulent stems, and its peculiarly mild flavor; keeps well .05 .20 .60 \$2.00

Henderson's White Plume. Crisp, solid and possessing a sweet, nutty flavor; requires very little labor in blanching. Very early and handsome .05 .20 .60 2.00

Pink Plume. Similar to White Plume, except in color; of superior quality and a compact grower .05 .20 .60 2.00

Golden Self-Blanching. A fine, solid variety, of a beautiful waxy, golden color; very thick stalks of excellent flavor; growth close, compact and of medium height. .05 .30 1.00 3.50

Winter Queen. An excellent winter keeper, recommended especially to market gardeners. Grows a thick stalk and has a large heart. The color is creamy-white and very attractive .05 .20 .60 2.00

Giant Pascal. An easily blanched variety, superior for late use. .05 .20 .60 2.00
Soup Celery. Used for flavoring pickles, soups, etc. .05 .10 .30

CHARD—Swiss (or Spinach Beet).

Swiss Chard. (Sometimes called Sea Kale Beet.) After once having used Swiss chard for greens we believe your garden will always have at least a row of it, for it is delicious. The leaves are used as greens, and served like spinach. The mid-ribs may be cooked like asparagus. Cuttings may be made all summer, as it can be cut down to the ground and new shoots will soon spring up and make fast growth.
 "Lucullus"—largest and best variety .05 .10 .20 .50

CHERVIL.

Curled Chervil. An aromatic sweet herb. The young leaves are used in soups and salads. Pkt. Oz. ¼ lb.
 Sow thinly in May, in drills half an inch deep, one foot apart. .05 .10 .25

CHICORY.

One ounce to 100 feet of drill.

Large Rooted. Used to mix with or as a substitute for coffee. The roots are taken up, washed, cut in small pieces and carefully dried before being used. Cultivation same as the carrot. .05 .10 .25

CORN—Sweet.

The sweet or sugar varieties, being liable to rot in cold, wet ground, should not be planted before the middle of May, and for a succession continue planting every two weeks until July, in rich, well-manured ground, in hills three feet apart each way, covering about an inch, and thin out to three plants to a hill, or plant in rows four feet apart, and to stand eight inches apart in the rows.

One quart to 200 hills; 10 quarts to an acre.

Corn ordered by mail is subject to an extra charge of six cents per quart for postage. Pints furnished at quart rates. For larger shipments by mail, see rates on page 3 of this catalog. Pkt. Qt. Pk. Bu.

EARLY MAYFLOWER. The earliest variety yet produced, being from seven to ten days earlier than the Cory. Is a perfectly white corn, eight, ten, and twelve rowed, very productive, and for so early a variety, is of excellent quality. .05 .20 \$1.35 \$4.75

CORN—Continued.**Peep O'Day.**

One of the first to mature. Stalks from three and one-half to four and one-half feet in height, with from two to three ears each. Small, white cob, with tender kernel.

Pkt.	Qt.	Pk.	Bu.
.05	.25	\$1.35	\$4.25

Cory.

Very early, dwarf variety; desirable for private or market gardens.

.05	.15	1.10	3.75
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White Cory.

Similar to the above, with white cob.

.05	.15	1.10	3.75
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Burbank's

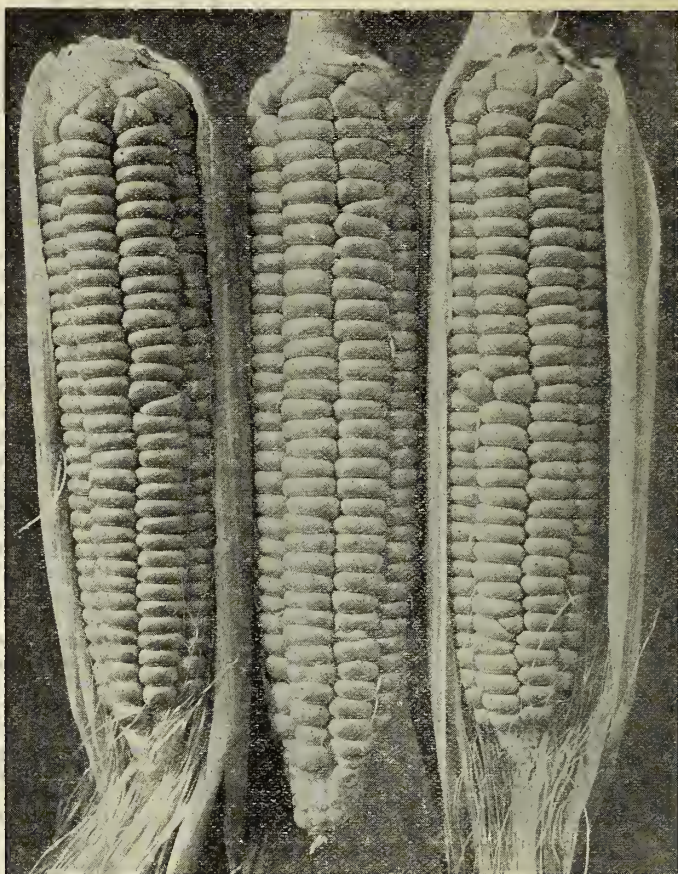
Early. As early as the Cory. Has a pure white cob, with a rich, cream-white kernel; sweet and juicy.

.05	.25	1.35	4.25
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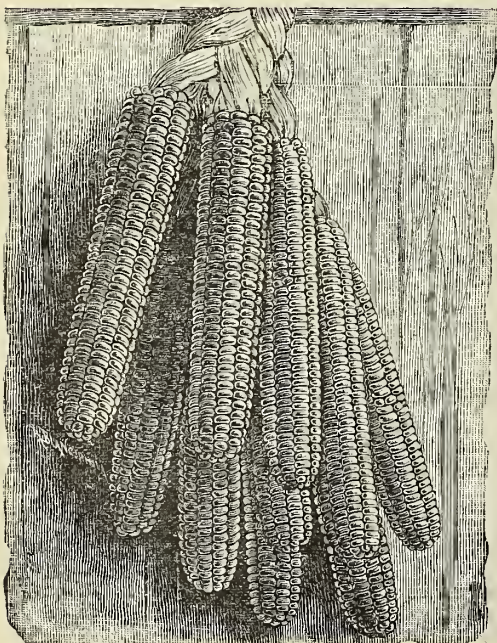
Golden Bantam.

A superior variety of a bright golden color; is very hardy and productive and is of a rich sugary flavor.

.05	.25	1.35	4.25
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GOLDEN BANTAM SWEET CORN.



EARLY YELLOW FIELD CORN.

“K. & W.” CROSBY EXTRA

EARLY. The best early sort, sweet and of fine flavor. Dwarf, with ears set low, averaging from sixteen to eighteen rows. An excellent market variety, and largely grown for canning. The seed offered is from selected stock of our own growing

.10	.25	1.65	6.00
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Early Crosby. Similar to the above, the stalks being taller and heavier; nearly ten days later.

.05	.15	1.10	3.75
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BRIGGS' IMPROVED GOLDEN

BANTAM. A variety somewhat larger and more productive than the Bantam, maturing a little earlier. Is tender, sweet and delicious, of a beautiful golden color, shading to orange, many ears running ten and twelve rowed

.10	.25	1.75	6.00
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Stowell's Evergreen. A late variety of excellent quality, remaining longer in the green state than any other kind

.05	.15	.85	3.00
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Potter's Excelsior. Twelve rowed, very sweet and tender.

.05	.15	1.10	3.75
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Country Gentleman. Medium early and productive

.05	.15	1.10	3.75
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Black Mexican. Grain bluish-black, especially rich in sugar qualities.

.05	.15	.85	3.00
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CORN—Continued.

FIELD AND ENSILAGE CORN.

$1\frac{1}{4}$ to $1\frac{1}{2}$ bushels in drills, per acre.

	Qt	Pk.	Bu.
Winn's Hybrid. A very fine field variety; safe to plant in this state; yields large crops.	.15	\$1.00	\$3.50
Longfellow. A fine field variety, having very long ears, small cob, and large kernel.	.15	.65	2.25
Early Yellow Canada. Well known, early eight-rowed variety.	.15	.90	3.25
Evergreen Fodder. Sweet corn for ensilage.		.50	1.75
Red Cobb Ensilage. A pure white corn. Is tender and juicy, has short joints, and grows to a great height, with an abundance of leaves.	}	Price quoted on application.	
Leaming. An early, very productive variety. One of the best for ensilage; profitable as a green fodder.			
Early Sanford. Very early; ears white; excellent for fodder and ensilage.		.60	1.90

CRESS (Peppergrass).

A well-known salad. Requires to be sown thickly and covered very slightly. Sow at frequent intervals to keep up a succession, as it soon runs to seed.

One ounce will sow about 100 feet of drill.

	Pkt.	Oz.	$\frac{1}{4}$ lb.
Extra Curled. Very fine; may be cut two or three times.	.05	.10	.20
Water Cress. A hardy perennial aquatic plant, growing in water along the margins of streams.	.10	.30	\$1.00

CUCUMBER.

The cucumber is a tender annual, and therefore should not be planted or set out in the open air until there is a prospect of continued warm and pleasant weather. Cucumbers succeed best in warm, moist, rich, loamy ground. The hills should be four or five feet apart in each direction. When all danger from insects is passed, leave but three or four of the strongest plants in the hill. One ounce to 50 hills; 2 pounds to the acre.



IMPROVED WHITE SPINE CUCUMBER.

table use; very productive; medium size, straight and well formed; a favorite market variety.

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Early Green Cluster. Grows in clusters; early and productive.	.05	.10	.20	.65
Short Green. Similar to Early Frame.	.05	.10	.20	.65
Japanese Climbing. Quick, strong growing vines, which may be trained upon a trellis or poles. Fruit from twelve to sixteen inches in length, skin dark green, flesh pure white, crisp and of fine flavor.	.05	.10	.35	\$1.00
Lemon. A distinct type; nearly round, with the yellow and green markings and smooth skin of the lemon, while flesh is exceedingly tender, crisp and sweet.	.10	.15	.40	1.25
Long Green. Long and crisp; a popular and reliable variety for pickling.	.05	.10	.20	.65
Boston Pickling. The finest variety to grow for pickles; yields large crops; short, straight and dark green.	.05	.10	.20	.65
West India Cherkin. Small prickly variety; grown exclusively for pickling.	.05	.15	.40	1.25

Cumberland.

A variety of the Improved White Spine type. Is a splendid table sort, and excellent for pickling. Color, deep green, with white tip; flesh firm; very crisp and tender.

Pkt. Oz. $\frac{1}{4}$ lb. Lb.

Early Russian.

The earliest variety.

Early Frame.

An early standard variety, about five inches long.

Improved White Spine.

Superior for



IMPROVED FRENCH THICK-LEAVED
DANDELION.

DANDELION.

A hardy perennial plant, with broad thick leaves, affording one of the earliest as well as one of the most healthful of spring greens. Sow as early as the weather will permit, in good, well-enriched soil, in rows twelve inches apart, covering seed one-fourth of an inch deep, the earth firmly pressed over the seed.

One ounce to 150 feet of drill; 1 pound will sow an acre.

Improved French Thick-Leaved.

Pkt. Oz. $\frac{1}{4}$ lb. Lb.

The best variety..... .10 .30 \$1.15 \$4.00

EGG PLANT.

The egg plant will thrive well in any good garden soil. Sow in the hot-bed and when two or three inches high prick out into pots, or rows two and one-half to three inches apart. When the weather will permit, transplant into good, rich soil, thirty inches apart each way.

One ounce will produce 1,000 plants.

New York Improved Purple. The leading market variety;

very productive..... .10 .25

Early Long Purple. Hardy and productive..... .10 .25

White. Choice, for ornamental use..... .10 .25



EGG PLANT.

ENDIVE.

For early use, sow in May, scattering the seed thinly in drills ten inches apart, covering it lightly, and for a succession, every two or three weeks until mid-summer. The plants must be blanched before using, which is accomplished by gathering the large outer leaves to a point at the top, and tying them together.

One ounce will sow 150 feet of drill.

Green Curled. Has very curly leaves, the outer edges being much indented and crested.

An attractive plant and one of the best varieties..... .05 .15 .40

White Curled. A light yellowish-green variety; very curly and quite ornamental..... .05 .15 .40

Broad-leaved Batavian. Variety having wide, thick leaves, straight at the edges and curved toward the centre. Color dull green..... .05 .15 .40

KALE (Borecole).

Sow early in May in a prepared bed, covering the seed lightly. Transplant in June, in rows three feet apart and two feet apart in row, and treat in the same manner as for cabbage. Kale is improved by a little frost, giving it a more delicate flavor.

One ounce to 150 feet of drill.

Green Curled Scotch. A round dwarf variety, rarely exceeding eighteen inches in

height, but spreading out under good cultivation to three feet in diameter..... .05 .10 .30

KOHL-RABI (Turnip-Rooted Cabbage).

A vegetable intermediate between the cabbage and turnip. The edible part, the bulb, grows on a stalk a few inches above the ground. It is best cultivated by sowing the seeds in rows in May, June and July, according to latitude.

One ounce will sow about 200 feet of drill.

Early White. Flesh white and tender, the best market sort..... .05 .15 .40

Early Purple. Differing from the above in color, being of a bluish purple..... .05 .15 .40

LEEK.

The leek is very hardy and easily cultivated. It succeeds best in a light, well-enriched soil. Sow as early in the spring as practicable, in drills one inch deep, and one foot apart. When six or eight inches high, they may be transplanted in rows ten inches apart each way, as deep as possible, that the neck, being covered, may be blanched.

One ounce of seed to 150 feet of drill.

London Broad Flag. A large variety with broad leaves..... .05 .15 .40

LETTUCE.

Lettuce thrives best in rich, moist ground. Sow the seeds in hot-beds in February or March, and transplant into a sheltered border with a southern exposure. For successive crops, sowing may be made in the open ground as early as spring opens, and continuing until July.

One ounce to 125 feet of drill.



BOSTON CURLED
LETTUCE.



TENNISBALL
LETTUCE.



VICTORIA CABBAGE
LETTUCE.

	Pkt.	Oz.	¼ lb.
Big Boston. Fine for forcing in cold frames, and for planting in the open ground.....	.05	.10	.30
Boston Curled. A variety of great beauty and of very superior quality. Leaves beautifully curled; attractive on table.....	.05	.10	.30
Brown Dutch. A large, hardy variety.....	.05	.10	.30
Deacon. Large and very solid heads, crisp and tender.....	.05	.10	.30
Defiance. Large, solid and crisp; stands the summer heat.....	.05	.10	.30
Early Curled Silesia. Fine for summer use.....	.05	.10	.30
Giant Crystal Head. Outside leaves curled, with red edges. Heads large and solid...	.05	.10	.30
Golden Queen. Medium sized; golden-yellow heads, tender and crisp; a fine early head variety for forcing or open air culture.....	.05	.10	.30
Hanson. Heads very large, solid, tender, crisp and of fine flavor; color beautiful green outside and white within.....	.05	.10	.30
Hittinger's Belmont Forcing. Larger than the White-Seeded Tennisball, nearly as early and of excellent quality; a choice strain for forcing.....	.05	.15	.40
Iceberg. A large-heading variety; crisp and brittle, and color bright green, lightly tinged with brown on top of the head; leaves curled on the edges.....	.05	.10	.30
Mignonette. Small, compact, creamy-yellow heads tinged outside with russet; of superior quality, sweet, crisp and tender, very early and hardy; excellent "all seasons" variety.....	.05	.15	.40
Salamander. A fine summer lettuce. Is slow to run to seed, and will stand the drought and heat better than other varieties.....	.05	.10	.30
Tennisball, Black-Seeded. Popular for open-air culture; heads compact, crisp and tender.....	.05	.10	.30
Tennisball, White-Seeded. A good early sort, used largely for forcing.....	.05	.10	.30
Victoria Cabbage. Hardy and fine for early sowing.....	.05	.10	.30
Victoria Pink-Edged. Outer leaves edged with pink, hearts of a pale golden tinge; large, handsome heads.....	.05	.15	.40
White Paris Cos, Romaine. A sort with long, narrow, upright leaves; does not head, but when tied up blanches very easily.....	.05	.10	.30

MARTYNIA.

A strong-growing, hardy annual, with curious-shaped seed-pods, which, when young and tender, are highly prized for pickling. The pods are produced in great abundance, and should be gathered when about half grown. Plant in May or June in rows two feet apart, making hills about a foot apart.

One ounce will plant 50 hills.

	Pkt.	Oz.	¼ lb.
Martynia Probosidea. Best for pickling.....	.05	.25	.75

MELON—Musk.

Melons thrive best in a moderately enriched, light soil. The hills should be six feet apart each way. After all danger of frost is passed, plant twelve or fifteen seeds in each hill, and when well up, thin out to three or four plants.

One ounce to 60 hills; 2 to 3 pounds for an acre.

	Pkt.	Oz.	¼ lb.	Lb.
Emerald Gem. Medium size; flesh rich salmon, of delicious flavor and superior quality; early and prolific.....	.05	.10	.25	.75
Green Citron. Fruit medium size, deeply netted, shape nearly round, flesh green, and of rich, delicious flavor.....	.05	.10	.25	.75
Montreal. Large, round netted; flesh thick and light green..	.05	.10	.25	.75



MONTREAL
MELON.

MELON—Continued.

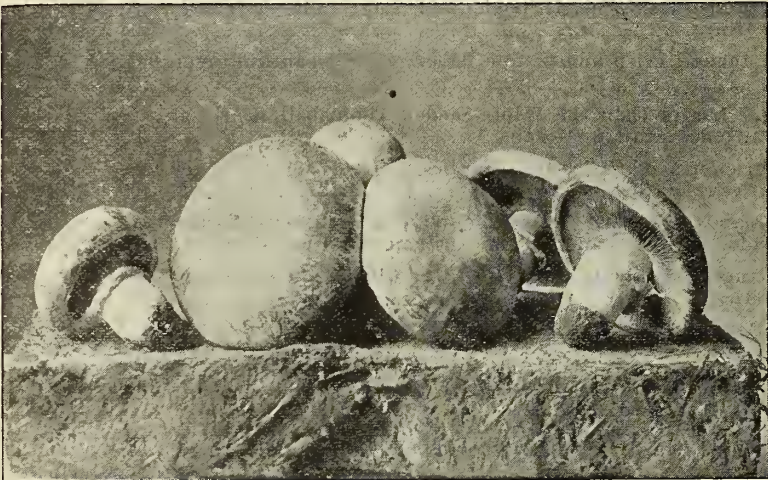
	Pkt.	Oz.	¼ lb.	Lb.
Large Round Yellow Cantaloupe. Flesh reddish-orange, sweet and of good flavor; an early and productive variety .....	.05	.10	.25	.75
Large Yellow Musk. A very large variety, deeply ribbed and thickly netted; flesh salmon yellow, thick and sweet. ....	.05	.10	.25	.75
Surprise. Very early; medium size; salmon colored; flesh of superior flavor. ....	.05	.10	.25	.75
Rocky Ford. Flesh green; medium size; oval shape. ....	.05	.10	.25	.75
Delicious Gold Lined Rocky Ford. Of a fine uniform shape, slightly oval; meat thick, green, and light gold toward center. A superior melon in flavor, and in every way .....	.05	.15	.35	\$1.25
Banana. So called on account of its shape. The color is a delicate straw; flesh (the melon being nearly solid) a rich salmon. The flavor is delicious when the melons are thoroughly ripe. A fine early variety .....	.05	.10	.25	.75

MELON—Water.

Plant in hills eight feet apart and cultivate same as musk melon. One ounce for 30 hills; 4 to 5 pounds to the acre.

Mountain Sweet. An old and reliable sort; flesh red .....	.05	.10	.20	.60
Black Spanish. Fruit of large size, almost round; skin dark green, flesh red .....	.05	.10	.20	.60
Phinney's Early. Productive, early and finely flavored; flesh red .....	.05	.10	.20	.60
Citron. The standard variety for preserves .....	.05	.10	.20	.60

MUSHROOM SPAWN.



MUSHROOM.

Mushrooms may be grown in a warm cellar or shed in winter, or in the open air in summer. Take partially dry, fresh horse manure and lay it in a heap to ferment; turn and mix it well every few days, and when well fermented, it may be made into a bed, mixing it well together and beating or treading it firmly. Use a thermometer to thrust into the bed, and note the temperature. When the heat has partially subsided, leaving a temperature of 70° to 80°, put in the spawn, which may be inserted in pieces the size of a walnut, about two inches deep and six inches apart. After about two weeks, cover with fresh soil about two inches deep and beat it down evenly and firmly. Finish off with a covering of clean straw or hay about a foot thick. If the temperature is

right, mushrooms will begin to come up in about six to eight weeks, and the bed will continue bearing for about a month. One pound of spawn is sufficient for a bed 2 x 6 feet.

English SpawnIn bricks, per lb., 12 cts.; 10 lbs., \$1.00

By mail, add five cents per pound for postage, and for larger shipments by mail, see rates on page 3 of this catalog.

MUSTARD.

A pungent salad used with cress. The seed is used for flavoring pickles, etc. Sow in May thickly in rows and cut when two or three inches high.

One ounce to 40 feet of drill.

	Oz.	Lb.
White London. Best for salads .....	.05	.30
Brown .....	.05	.35

OKRA (Gumbo).

Sow about the middle of May, when the ground is warm, in hills about three feet apart; cover seed one-half inch and thin plants to three in a hill. Keep ground well hoed and earth up around plants to support them. Gather pods while young and tender. Excellent for soups, stews, etc., to which they impart a rich flavor.

One ounce will sow 40 feet of drill.

	Pkt.	Oz.	¾ lb.
Improved Dwarf Green. Small, green, round, smooth pods .....	.05	.10	.30

ONION.

No vegetable is more extensively known and cultivated than the onion. A good crop is impossible unless the soil is very rich and kept clean. Use well-rotted manure freely, and get the crop in as soon as possible in the spring, no matter if the weather is cold and unpleasant. Sow in drills one foot apart and cover about one-third of an inch, treading or rolling after sowing, so that the hot, dry atmosphere may not dry up and destroy the sprouting seed.

One ounce to 100 feet of drill; 5 pounds to the acre.

Early Yellow Cracker. Flat, early onion, of mild and delicate flavor, and a good keeper..... Pkt. Oz. ¼ lb. Lb.
.05 .20 .65 \$2.25

"K. & W." YELLOW GLOBE DANVERS. Extra choice seed, grown from bulbs especially and carefully selected as to shape; the most popular of all the yellow onions for market and home use. A heavy cropper, good keeper, and of fine, mild flavor. A profitable variety for market gardeners.....

.05 .25 .90 3.25

Yellow Globe Danvers. Grown from selected stock; a standard variety Pkt. Oz. ¼ lb. Lb.
.05 .15 .50 1.50

Large Red Wethersfield. Large size, productive and a good keeper05 .20 .65 2.25

Extra Early Red Globe. Ten days earlier than the Wethersfield, of medium size and deep, rich color; an abundant producer, and of good form and flavor, keeping well05 .20 .75 2.50

Prizetaker. Large, pale yellow onion; flesh white; mild flavor05 .20 .65 2.25

White Portugal. A mild and desirable summer variety; extensively grown for pickling05 .20 .75 2.50

New Queen. A silver-skinned variety, of quick growth and remarkable keeping qualities05 .20 .65 2.25

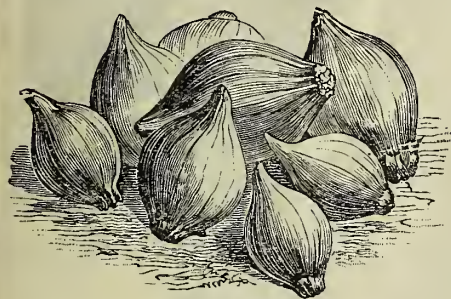
Red Globe, Southport. Flesh fine grain, mild and tender; matures quite early; good size05 .20 .65 2.25

White Globe, Southport. Clear white skin, large, globe-shaped; heavy yielder and good keeper05 .20 .75 2.75

Yellow Globe, Southport. A large, handsome, yellow variety; very productive, of mild flavor and a good keeper..... .05 .20 .65 2.25



YELLOW GLOBE DANVERS
ONION.



ONION SETS.

ONION SETS.

Onion sets should be planted near the surface as early in the spring as the ground will permit, in drills about twelve inches apart and four inches in the rows. They produce a very early and profitable crop, and grow in any good soil.

Add six cents per quart if sent by mail, and for larger shipments by mail, see rates on page 3 of this catalog.

	Qt.	Pk
White Onion Sets .....	.15	\$1.10
Yellow Onion Sets .....	.15	1.00

For larger quantities, prices will be given on application.

PARSLEY.

Parsley seed germinates very slowly, taking two to four weeks to come up; hence, if wanted early, no time should be lost by delaying the sowing. Make the rows 12 to 14 inches apart. Thin to 3 or 4 inches apart, or transplant at this distance. Can be sown in hot-beds in February, or later in open ground. Late in autumn place glass frames over some of the plants to lengthen out the season of cutting. For garnishing purposes nothing equals parsley; it is also used in salads, soups, etc. Any good soil is suitable for growing this plant.

One ounce to 150 feet of drill.

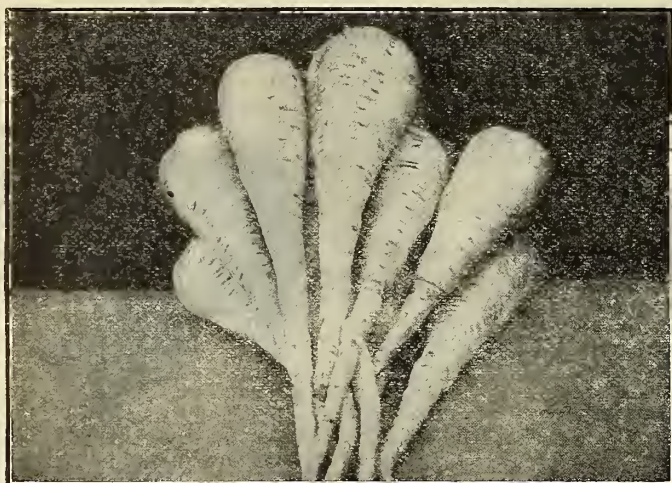
Extra Double Curled Pkt. Oz. ¼ lb.
.05 .10 .25

Fern Leaved05 .10 .25

PARSNIP.

Sow as early in the spring as the weather will admit, in drills fifteen inches apart, covering half an inch deep. When well up thin out to five or six inches apart in rows. Unlike carrots, they are improved by frosts, and it is usual to take up in the fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

One ounce to 150 feet of drill; 5 pounds to the acre.



DON PARSNIP.

PARSNIP—Continued.

Pkt. Oz. ¼ lb. Lb.

DON. A variety selected for handsome form, size, whiteness of skin and flesh, and solidity of texture. Specially recommended for market trade....

.05 .10 .30 \$1.00

Arlington Long White. Roots very long and smooth; one of the best for market gardeners.....

.05 .10 .20 .50

Abbott's Improved. Smooth and quite large; one of the best..... .05 .10 .20 .50

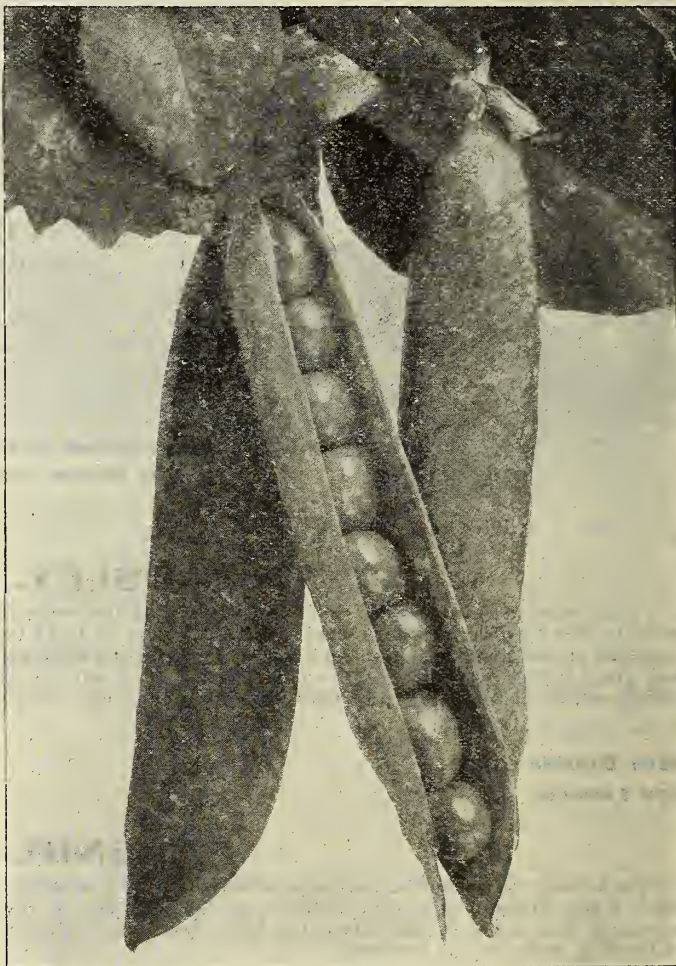
Hollow Crown. Roots very long, growing mostly below the surface of the ground.... .05 .10 .20 .50

PEAS.

Peas, for an early crop, should be sown as soon as the ground is in working condition. The soil for their reception should be light, dry and well sheltered. Mild manure, such as leaf mold, has a beneficial effect; but for many of the varieties the soil cannot be too rich. For general crops, the ground should be well manured the previous year, which causes them to yield more abundantly. When grown as a market crop, peas are never staked, and are sown in single rows, two or three inches deep, and from two to three feet apart, according to the variety or strength of the soil. When grown in small quantities for private use, they are generally sown in double rows, six or eight inches apart, and the tall varieties staked up by brush.

One quart will plant 75 to 100 feet of drill; from 1 1-2 to 2 bushels to the acre.

Peas ordered by mail are subject to an extra charge of six cents per quart for postage. Pints furnished at quart rates. For larger quantities by mail, see rates on page 3 of this catalog.



LAXTONIAN PEAS.

PEAS—Continued.

Extra Early.

	Qt.	Pk.	Bu.
GRADUS. One of the earliest large-podded peas. Produces healthy, vigorous vines two and one-half feet high, bearing well-developed pods, containing peas of fine flavor.....	.25	\$1.75	\$ 6.50
Early Morn. A variety of the Gradus type. The peas are large, closely packed in the pod, and of splendid flavor; 3 feet.....	.25	1.85	6.75
THOMAS LAXTON. One of the best early wrinkled varieties, resembling the Gradus; pods large, and well filled with peas of excellent flavor. Hardy and extremely productive.....	.25	1.75	6.50
NOTT'S EXCELSIOR. Robust and vigorous in growth, producing handsome pods, closely packed with large peas of fine flavor; height, 12 inches..	.25	1.75	6.00
SUTTON'S EXCELSIOR. Same habit of growth as Nott's Excelsior, bearing larger pods, filled with large peas, tender and of most delicious flavor and produced in great abundance.....	.25	1.75	6.25
LAXTONIAN. One of the earliest large, wrinkled peas. Vines are vigorous, growing about eighteen inches high; large, even-sized, deep green pods, long and curved; peas of fine quality.....	.40	2.50	9.50
LITTLE MARVEL. Extra early; similar to Nott's Excelsior. About fifteen inches high; dark green pods often growing in pairs; very prolific....	.30	1.75	6.50
Carter's Daffodil. A dwarf pea of the rich color of the later types. Vine of bushy habit, and about eighteen inches high. Peas of fine quality.....	.35	2.50	9.50
Cleveland's Alaska. A fine blue-seeded, extra early pea, with dark green colored pods; uniform in growth and almost entirely free from sports or runners; height, 2½ feet....	.20	1.35	4.75
"K. & W." Extra Early. A variety similar to, but an improvement upon the Alaska, being fully as early, but bearing larger pods; height, about 2 feet.....	.25	1.50	5.25
Cleveland's Eclipse. This pea is a very early variety, a vigorous grower and a large producer, with pods of good size. Seed green and wrinkled and of sweet and delicious flavor; height, 2 feet.....	.25	1.50	5.25
Bliss' American Wonder. One of the earliest wrinkled sorts; grows about 9 inches high and is covered with well-filled pods.....	.25	1.50	5.50
McLean's Little Gem. A dwarf green, wrinkled sort of superior flavor, 1 foot.....	.20	1.35	4.75
Carter's Premium Gem. A very fine dwarf, wrinkled pea, an improvement on Little Gem; 1 foot.....	.20	1.35	4.75
Maud S. One of the earliest smooth peas; 2½ feet.....	.20	1.35	4.75

Second Early.

Dwarf Telephone. A choice variety with dwarf vines, bearing large, handsome pods, with peas of fine quality. Vine eighteen inches high, stocky, healthy and vigorous, with almost no tendency to sport.....	.25	1.75	6.25
Heroine. A medium early, green, wrinkled variety; pods remarkably long and handsome, slightly curved, well filled with large peas; 2 feet.....	.25	1.65	5.75
McLean's Advancer. A second early, green, wrinkled, market variety; pods long and well filled with peas of fine flavor; 2 feet....	.20	1.35	4.75
Horsford's Market Garden. An excellent wrinkled variety, productive and of good quality; 2 feet.....	.20	1.35	4.75
Carter's Quite Content. Pods longer and larger than any other second early variety. Vines and pods deep green, large peas of excellent flavor. Recommended for market gardeners; height, 3 to 4 feet....	.40	2.75	10.00

For General and Late Crop.

PRINCE EDWARD. A favorite of the extra large-podded varieties. Vines about four and one-half feet high. Pods are large, filled with enormous peas, of tender, sweet and excellent flavor.....	.25	1.75	6.00
ADMIRAL DEWEY. Foliage, vine and pods rich, dark green. Healthy and vigorous, producing pods of large size, filled with peas of splendid flavor. One of the best of all long-vine, large-podded peas; height, 3 1-2 feet.....	.25	1.75	6.00
CARTER'S IMPROVED DARK GREEN PODDED TELEPHONE. An improvement on Carter's Telephone for PURITY and uniformity of HABITS, being true to name, showing no tendency to small, late pods, but bearing in great abundance LARGE, HANDSOME, FINELY FORMED PODS, from five to six inches in length. A superior wrinkled variety; height, 3 feet.....	.25	1.75	6.00
Duke of Albany. Resembling Telephone in appearance; vine more dwarf; height 2½ to 3 feet.....	.25	1.75	6.00
Bliss' Everbearing. Fine wrinkled variety; pods three to four inches long, well filled with large peas; 2 feet.....	.20	1.35	4.75
Yorkshire Hero. A green, wrinkled variety, of branching habit and fine flavor; 2½ feet.....	.20	1.35	5.00

PEAS—Continued.

	Qt.	Pk.	Bu.
Sutton's Dwarf Defiance. Very productive. Pods handsome, long, straight, dark green, and filled with large peas of fine flavor.....	.25	\$1.50	\$5.50
Improved Stratagem. One of the best of the large, wrinkled varieties, with pods of immense size, uniformly filled with very large, dark green peas of the finest quality; 2 feet	.25	1.65	5.75
Champion of England. A well-known popular variety, unsurpassed in flavor, and very productive; 5 feet .....	.25	1.35	5.00
Mammoth Podded Sugar (Edible Pods). Broad pods; cooked as string beans they are sweet and tender; height, 4 feet ....	.35		
Royal Dwarf White Marrowfat. One of the best late sorts; white seeded; very productive; 3 feet .....	.15	1.15	4.00
Black-eyed Marrowfat. This, as well as the preceding, is extensively grown as a field pea; hardy and productive; 4 feet.....	.15	1.15	4.25
White Canada Field. Valuable for sowing with oats for green fodder; excellent for feeding to pigeons, etc.....		.85	3.00

For a larger and better yield inoculate peas with Farmogerm. See page 45.

PEPPER.

Grown largely for pickles. Sow in hot-beds early in April and transplant to the open ground when the weather is warm and settled. The rows should be two feet apart and the plants fifteen inches apart in the rows. Rich, warm, mellow soil.

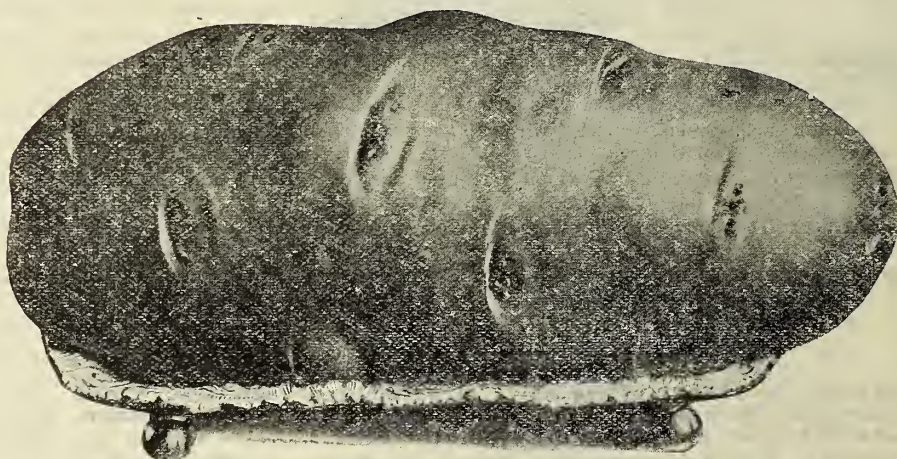
One ounce of seeds will produce about 2,000 plants.

	Pkt.	Oz.	¼ lb.
Large Bell. Large and of mild flavor .....	.05	.20	.65
Sweet Mountain or Mammoth. Similar to the Bell, but larger.....	.05	.20	.65
Large Squash. Productive; much used for pickles .....	.05	.20	.65
Red Cherry. Small, round, smooth, glossy scarlet fruit.....	.05	.20	.65
Long Red Cayenne. Bright red; very productive.....	.05	.20	.65

POTATOES.

10 to 12 bushels, or about 4 barrels, sufficient for one acre. One peck will plant 75 hills.

"ALL OUR STOCK IS GROWN IN MAINE."



Prices quoted on application.

Sunlight. An extra early market variety, medium size, oval or oblong in shape, color very white; a handsome potato, of good quality.

Extra Early White Rose. As near perfection as any white potato grown, and one of the most reliable for earliness, quality and productiveness. Is uniform in size and shape, being oblong, with roundish seed end, and smooth surface. A grand general crop variety.

Early White Ohio. Extra early white potato, with pinkish eyes, skin slightly streaked with pink, smooth and round, rather long in shape. A good keeper and excellent cropper.

Irish Cobbler. One of the most reliable of the early varieties. Cream-white color, vigorous grower, ripens uniformly, and a good keeper.

Early Harvest. Extra early, large yielder; superb quality. The tubers average large size. A desirable early variety.

Early Rose. The pioneer of all the improved varieties, still very popular and highly esteemed.

POTATOES—Continued.

Gold Coin. Tubers are of a desirable size, in form slightly oblong, rather broad and quite thick, skin smooth, and of a light golden tint, sufficient to make them distinct from the white-skinned varieties; flesh pure white.

Improved Green Mountain. Improved by careful selection of seed. In season it is medium; one of the best yielders, and keeps well; color white, form round or oval, smooth skinned and a heavy yielder.

Norcross. Large white potato; flat, oval, and perfect in shape; very fine in quality and a large yielder.

PUMPKIN.

Same cultivation as for cucumbers and melons.

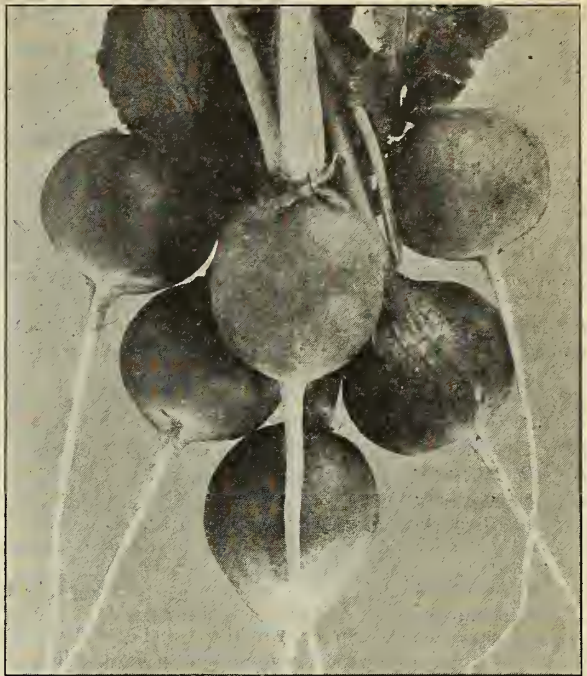
One ounce for 20 to 25 hills, 3 pounds for an acre.

Large Cheese. Medium Pkt. Oz. $\frac{1}{4}$ lb. Lb.
size; best for cooking.. .05 .10 .20 .65

Sugar. Fine grained,
sweet and prolific..... .05 .10 .20 .65

Mammoth Tours.
Grows to enormous size,
frequently weighing
from 100 to 150 pounds.
Oblong in shape, and is
mainly used for feeding
stock05 .10 .25 .75

Connecticut Field.
Large; used for stock.. .05 .10 .15 .40



SCARLET TURNIP RADISH (white tip).

RADISH.

Radishes thrive best in a light, rich, sandy loam; heavy or clayey soils not only delay their maturity, but produce crops much inferior, both in appearance and flavor. For a successive supply, sow from the middle of April until September, at intervals of two or three weeks. For an early supply they may be sown in a hot-bed in February. *One ounce for 100 feet of drill.*

Non Plus Ultra. The earliest forcing radish; extra early, maturing in about twenty days; round, bright red, with small tops; very mild..... Pkt. Oz. $\frac{1}{4}$ lb. Lb.
..... .05 .10 .20 .50

Crimson Giant Forcing. Rich, crimson color, flesh white and solid, and of a mild and delicious flavor. Grows to a large size without becoming pithy. Excellent for forcing05 .10 .20 .50

Early Scarlet Turnip (white tip). Handsome bright scarlet color, with white tip..... .05 .10 .20 .50

Long Scarlet Short Top. Very long and crisp; for frames or open ground..... .05 .10 .20 .50

Early Scarlet Turnip. Round, scarlet, small, short top; mild and crisp .05 .10 .20 .50

French Breakfast. A variety of quick growth; very mild and tender. One of the best for forcing05 .10 .20 .50

Early White Turnip-rooted. Round, clear white05 .10 .20 .50

Icicle. Quick growing; clear white. Fine for forcing05 .10 .20 .50

Black Spanish. One of the hardiest and best for winter use05 .10 .20 .50



ICICLE RADISH.

SALSIFY (Oyster Plant).

Commonly called vegetable oyster. Used stewed, boiled or fried. When cooked has an oyster flavor. Sow early in drills fifteen inches apart; cover the seeds with fine soil, an inch and a half deep.

One ounce to 50 feet of drill.

	Pkt.	Oz.	¼ lb.	Lb.
Long White French.....	.05	.15	.50	\$1.75

SPINACH.

Spinach is an important market gardener's crop, of easy culture. For spring and summer use sow in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well-manured ground; cover with straw on the approach of severe cold weather. The New Zealand spinach, which requires more room, as it makes a large and spreading plant, may be started from seed early in spring to give greens during the heat of summer. Light applications of nitrate of soda have often a magic effect on spinach.

One ounce to 100 feet of drill; 10 to 12 pounds per acre.

	Pkt.	Oz.	¼ lb.	Lb.
Victoria. A variety producing large, thick leaves of fine color and quality.....	.05	.10	.25	
Round Thick-Leaved. A valuable variety, with thick, dark green leaves; long standing and hardy .....	.05	.10	.25	
Savoy Leaved—Bloomsdale. Large, curled and wrinkled leaves, fine market sort. Especially recommended for market gardeners .....	.05	.10	.25	
Long Standing. Dark green; the longest standing before going to seed.....	.05	.10	.25	
Fall or Winter. One of the hardiest for fall planting.....	.05	.10	.25	
New Zealand. Of branching habit, makes a very large plant, which stands drouth well. Leaves thick and fleshy, enduring the entire summer .....	.05	.10	.20	.65

Market gardeners, and others using large quantities, are requested to write for special quotations.

SQUASH.

Any good, rich soil is adapted to the growth of the squash. They only thrive well in a warm temperature, as all the varieties are tender annuals, and the seed should not be sown in the spring until all danger from frost is past and the ground is warm and thoroughly settled. The hills for bush varieties should be about six feet apart; for running sorts, ten feet. Leave two plants to a hill. *Running varieties, 1 ounce to 20 hills; 4 pounds per acre. Bush varieties, 1 ounce to 50 hills; 2 pounds per acre.*

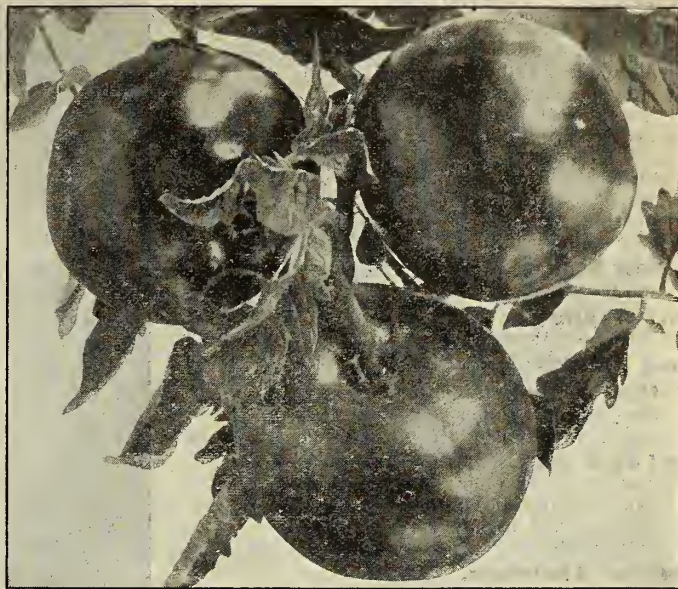
**SQUASH.**

	Pkt.	Oz.	¼ lb.	Lb.
Delicious. In color it closely follows the Hubbard, and in thickness of flesh it surpasses nearly every variety. No squash compares with it in fineness and compactness of grain, dryness and sweetness and richness of flavor. It is a fall and winter squash, but does not acquire its best qualities until winter.....	.05	.10	.25	.90
Hubbard. Standard winter squash, a general favorite and grown more extensively than any other late variety; color dark green, shell extremely hard; flesh dry, fine-grained and sweet; excellent keeper.....	.05	.10	.25	.75
Golden Hubbard. Similar to Green Hubbard, of a rich orange-red color, and of fine flavor.....	.05	.10	.25	.75
Warted Hubbard. Dark green color, shell hard and warted, good keeper.....	.05	.10	.25	.75
Early Prolific Marrow. For fall and winter use this is a very desirable sort. Is of excellent quality and keeps well. Color brilliant orange red.....	.05	.10	.25	.75
Boston Marrow. A much esteemed variety; a good keeper and of excellent flavor..	.05	.10	.25	.75
Yellow Bush Scalloped. An early market variety; excellent for shipping.....	.05	.10	.25	.75
Summer Crook-Neck. Early, productive, and of good quality; color orange yellow.	.05	.10	.25	.75
Winter Crook-Neck. An old, well-known variety; hardy and a good keeper.....	.05	.10	.25	.75
Mammoth Chili. Grows to a large size, often weighing over two hundred pounds; excellent for stock.....	.05	.10	.30	1.00

TOMATO.

This vegetable is one of the most important of all garden products. They thrive best in a warm, light, rich soil. For early plants, sow about the first week in March in a hot-bed, or in boxes or pots in a warm window. When the plants are about two inches high, set out in boxes, three inches deep and four inches apart, in the same temperature, or pot singly. If again transplanted before setting out, the plants will be still more stocky. Set out in the open ground about the first of June, four feet apart each way, using a shovelful of rotted manure in each hill. *One ounce will produce about 2,000 plants.*

EARLIANA. The earliest large tomato. Its large size, handsome shape, beautiful red color and fine quality are unsurpassed by any of the best early and medium sorts ... Pkt. Oz. ¼ lb.



EARLIANA TOMATO

Bonny Best. Color an intense scarlet. It is roundish and slightly flattened at stem end. Early, prolific, and uniform in shape and size .....	.05	.30	.90
Scarlet Globe. Brilliant scarlet, ripens evenly, is smooth, round, a vigorous grower, and a most desirable table and canning variety .....	.05	.30	.90
Chalk's Early Jewel. A fine second early tomato, about ten days later than Earliana. Fruit large size and fine flavor. The plants are compact and strong, one of the best for shipping and the home garden .....	.05	.30	.90
Table Queen. Early, smooth, bright red color; flesh very solid; fine table variety .....	.05	.20	.65
Fordhook. Extra early; perfectly smooth and solid; medium size .....	.05	.20	.65
Livingston's Beauty. Color very glossy crimson; grows in clusters of four or five; fruit large and solid .....	.05	.20	.60
Livingston's Favorite. Productive; good flavor; few seeds; flesh solid, smooth and handsome .....	.05	.20	.60
Livingston's Perfection. Early, large, smooth and solid; blood red color .....	.05	.20	.60
Dwarf Champion. Dwarf variety; fruit medium size, resembling the Acme in color .....	.05	.20	.65
Dwarf Stone. The largest fruited of the dwarf varieties, the fruit being of a bright scarlet, and growing in clusters; flesh very solid, firm and smooth .....	.05	.20	.65
New Stone. Fruit very large and deep; bright scarlet; smooth; ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed, of the finest quality .....	.05	.20	.65
Red Cross. Early, very smooth and even in size throughout the season .....	.05	.20	.65
Red Cherry. A small early variety; size and shape of a cherry; for pickling .....	.05	.20	.65
Yellow Plum. Similar to Red Cherry, excepting color bright yellow .....	.05	.20	.65

TOBACCO SEED.

One ounce is sufficient for an acre.

Connecticut Seed Leaf. One of the best varieties. The leaves are of good width and length, and grow closely on the stalk05	.25	.85
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TURNIP.

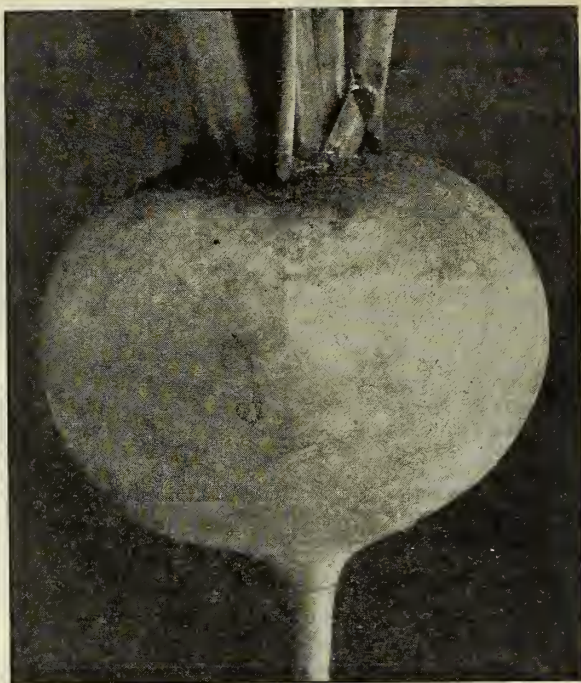
Turnips thrive best in rich, sandy, gravelly soil. The earliest varieties can be sown as soon as the ground can be worked, either in drills or broadcast. For a succession, sow at intervals of a fortnight until the last week in July for the fall and main crops. To keep the roots fresh during the winter, they may be placed in a cool, dry cellar and buried with dry sand.

One ounce for 150 feet of drill; 1 1-2 to 2 pounds in drill or 2 1-2 to 3 pounds broadcast to the acre.

Purple-Top Milan. The earliest variety in cultivation. Flesh white, hard, and of excellent quality	Pkt.	Oz.	¼ lb.	Lb.
White Egg. Oval; handsome and sweet .....	.05	.10	.25	.75
Purple-Top Strap Leaf. Excellent variety for main crop, equally good for spring or fall sowing; white flesh .....	.05	.08	.15	.50

TURNIP—Continued.

	Pkt.	Oz.	¼ lb.	Lb.
Purple-Top White Globe. Globular shape, handsome and of superior quality, either for the table or stock. Is a heavy producer, early, and a good keeper. The flesh is white and skin white, with purple at portion which grows above the ground .....	.05	.08	.15	.50
Yellow Stone. Fine, hard winter sort .....	.05	.08	.15	.50
Early White Six Weeks. Pure white; very early..	.05	.08	.15	.50
Long White or Cow Horn. Flesh white, fine-grained and sweet, and of excellent quality .	.05	.08	.15	.50
Golden Ball. A rapid grower of excellent flavor; bright yellow, good keeper, and a superior table variety.....	.05	.08	.15	.50
Yellow Aberdeen. An excellent hardy variety, keeping well through the winter.....	.05	.08	.15	.50
Sweet German. White, sweet and a good keeper	.05	.08	.15	.50



PURPLE-TOP WHITE GLOBE.

RUTA BAGA or SWEDE TURNIP.

Carter's Imperial Hardy Swede. An improvement upon the other varieties, being larger, the flesh firmer, and an excellent keeper.....	.05	.08	.15	.50
Skirving's Purple-Top. A standard variety; hardy and productive .....	.05	.08	.15	.50

FORAGE SEEDS, GRAINS, ETC.

At the Lowest Market Rates and of the Best Quality.

Early Green Soja Beans.

An excellent variety for planting in northern and eastern states. Ripens early and produces an enormous crop of both vines and pods. Valuable as a forage crop, and for fertilizing the soil, also for pasturing, feeding as green fodder, and for silo purposes. Sow ½ bushel to the acre.

Per pk., \$1.25. Per bu., \$4.50.



SOJA. OR SOY BEANS.

Vetches or Tares.

Spring Vetches. Highly valuable for soiling or for green manuring. Sometimes grown with oats, for mowing and feeding to stock. Use 120 to 180 lbs. to the acre broadcast, or 60 to 120 lbs. in drills.

Winter Vetches. Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, which serves as a support. It is perfectly hardy in all parts of the country, can be harvested or plowed under, and the ground used for the usual spring crop. Sow 60 lbs. of the seed per acre, together with ½ bushel of rye.

PRICE ON REQUEST.



VETCHES.

FORAGE SEEDS, GRAINS, ETC.—Continued.**COW PEAS.****Early Dwarf Essex Rape.**

A forage plant of great merit, easily grown in any locality, and one of the most satisfactory quick-growing crops, especially for sheep.

As a fattening food for sheep, cattle, calves or pigs, it is without a rival in point of cheapness, is hardy, withstands drought, and will produce a crop in any soil. The seed may be sown from May to July, 10 to 12 pounds per acre.

Per lb., 10 cts. Per 100 lbs., \$9.00.

"New Era" Cow Peas.

The seed resembles a small brown bean, in appearance, and is one of the best varieties to sow, as it is extremely early, a good cropper, and produces more seed pods than most other kinds. A very valuable forage plant. Sow at the rate of $1\frac{1}{2}$ bushels per acre.

Per pk., 85 cts. Per bu., \$3.00.

Inoculation of all legumes with Farmogerm is absolutely necessary for the best results. See page 45.

Barley.

Chevalier. A two-rowed variety. Head a little longer than the six-rowed varieties and the grain larger, plump, extra heavy and in favorable seasons nearly white. On account of its attractive appearance and fine quality, the grain brings the highest price, and is also extensively grown for green forage.

Buckwheat.

Japanese. The most desirable variety. If sown at the same time as the Silver Hull it will ripen earlier and yield nearly double the amount. It is of much stronger growth than the common buckwheat, and the kernels are fully twice the size.

Oats.

The "K. & W." Northern White. This variety is free from rust, early and extremely hardy, yielding remarkably heavy crops, the grains being large, white, plump and first-class in every particular. These oats have been carefully selected and thoroughly cleansed.

Swedish Regenerated. One of the most productive varieties of oats ever introduced. The straw is very firm, stiff and elastic and does not readily lodge. Early and ripens uniformly. The kernel is large and plump, with a thin hull, and of fine general appearance.

Wheat.

Spring Wheat (Fife). A red, beardless variety, hardy and productive.

Blue Stem. A heavy yielding variety. Heads are large and well filled.

Marquis. Similar to Red Fife, the heads being heavier and the straws shorter, making it less likely to lodge. The kernel is flinty, darker red and more plump than the Fife, and is beardless, having smooth, yellow chaff. A valuable feature is its extreme earliness and productiveness, ripening a week to ten days earlier than Red Fife and frequently yielding 40 to 50 bushels per acre. Weight, 64-66 lbs. per measured bushel.

Rye.

Spring. This is excellent for a catch-crop, as it may be sown somewhat later than other grains.

Winter. This variety is fast gaining in popularity as a cover crop and produces an abundance of early green feed. If allowed to mature will yield a heavy crop of grain and a fine quality of straw if cut about July 1.

Millet.

Japanese Barnyard. Succeeds in almost any ordinary soil, and may be sown from the middle of May to the first of July. Is distinct from other varieties. Enormous crop, and is excellent, either green or cured, for hay. Exceedingly popular as a forage plant.

Hungarian. Probably used more than any other millet for fodder during the summer months. Remains green when almost all other vegetation has dried up. It is one of the very best plants for green fodder or for ensilage; makes hay of good quality.

German or Golden Millet. Medium early forage plant, prolific in stalk and grain.

Write for quotations on all grain and grass seeds.

"K. & W." LAWN GRASS SEED.



To secure a rich, firm, deep and enduring lawn of luxuriant richness, not only should it be thoroughly prepared, well drained and graded, and enriched with decayed manures and commercial fertilizers, but if carefully sown with a sufficient quantity of

"K. & W." LAWN GRASS SEED,
it will result in a beautiful compact sward which will remain fresh and green throughout the season.

If sent by mail, add six cents per pound for postage, and for larger shipments by mail, see parcel post rates on page 3 of this catalog.

Per pound, 20 cents.

Bag containing 5 pounds, 90c.; 10 pounds, \$1.60; 25 pounds, \$3.75.

PERMANENT MIXTURE. FOR GOLF LINKS AND PUTTING GREENS.

Especially prepared for sowing to produce a short, dense sward.

If sent by mail, add six cents per pound for postage, and for larger shipments by mail, see parcel post rates on page 3 of this catalog.

Per pound, 30 cents.

SEEDLINGS AND VEGETABLE PLANTS.

FLOWER SEEDLINGS.

	Per Doz.		Per Doz.		Per Doz.		Per Doz.
Aster	15c.	Pinks	15c.	Snapdragon	15c.	Pansies (choice strain) ..	30c
Balsam	15c.	Phlox	15c.	Stocks	15c.	Verbenas	30c
Marigold	15c.	Petunia	15c.	Zinnia	15c.		

VEGETABLE PLANTS.

CELERY PLANTS—Ready June 1st to 15th.

	Per 100	Per 1,000
Golden Self-Blanching,	.70	\$6.00
White Plume,	.70	6.00
Boston Market,	.70	6.00

TOMATO PLANTS—Ready May 15th to 20th.

Earliana,	Dwarf Champion,
Red Cross,	Favorite,
Scarlet Globe,	Perfection,
Table Queen,	Bonny Best,
and other standard varieties.	

One dozen in each box, 30 cents.

CABBAGE PLANTS—Hot-bed plants.

Ready May 15th to 20th.

	Per doz.	Per 100	Per 1,000
Henderson's Summer,	.15	\$1.00	\$8.00
For Winter Crop. Ready June 15th to 20th.			
Stone Mason Drumhead,	.35		\$3.00

CAULIFLOWER PLANTS—Hot-bed plants.

Ready May 15th to 20th.

	Per doz.	Per 100
Henderson's Snowball,	.20	\$1.25

RHUBARB ROOTS.

15 cents each; \$1.50 per dozen.

CARNATION PINKS AND CANNAS. (In 4-inch pots.) Selected for summer blooming.

15 cents each; \$1.50 per dozen.

GERANIUMS. (In 4-inch pots.) 20 cents each; \$1.75 per dozen.

(In 3-inch pots.) 12 cents each; \$1.25 per dozen.

SWEET AND MEDICINAL HERBS.

Sow in spring, in shallow drills, one foot apart and when well up thin out or transplant to a proper distance apart.

	Pkt.	Oz.		Pkt.	Oz.		Pkt.	Oz.
Anise. <i>Annual</i>.....	.05	.15	Fennel, Sweet. <i>Perennial</i> ..	.05	.10	Rue. <i>Perennial</i>.....	.05	.15
Balm. <i>Perennial</i>.....	.05	.25	Horehound. <i>Perennial</i>....	.05	.25	Saffron. <i>Annual</i>.....	.05	.10
Basil, Sweet. <i>Annual</i>.....	.05	.15	Hyssop. <i>Perennial</i>.....	.05	.25	Sage. <i>Annual</i> . Per lb. \$1.50.	.05	.15
Caraway. <i>Biennial</i>.....	.05	.10	Lavender. <i>Perennial</i>.....	.05	.15	Summer Savory. <i>Annual</i> ..	.05	.15
Catnip. <i>Perennial</i>.....	.10		Marjoram, Sweet. <i>Annual</i>	.05	.15	Thyme. <i>Perennial</i>.....	.05	.25
Coriander. <i>Annual</i>.....	.05	.10	Mint.....	.10		Wormwood. <i>Perennial</i>....	.05	.25
Dill. <i>Biennial</i>.....	.05	.10						

SUMMER-FLOWERING BULBS.

GLADIOLUS.

Plant in good garden soil, after the ground becomes warm in the spring, in full exposure to the sun. Set bulbs from 4 to 6 inches deep.

America. Soft pink. Per doz., 35c.; per 100, \$2.50.	
Augusta. White. Per doz., 35c.; per 100, \$2.50.	
Baron Joseph Hulot. Deep blue. Per doz., 50c.; per 100, \$3.50.	
Mrs. Francis King. Flame pink. Per doz., 35c.; per 100, \$2.50.	
Velvet King. Red. Per doz., 50c.; per 100, \$3.00.	
Klondike. Yellow. Per doz., 60c.; per 100, \$4.00.	
Groff's Hybrid. Mixed. Per doz., 30c.; per 100, \$2.00.	
Superfine Mixed. Per doz., 50c.; per 100, \$3.00.	

CALADIUM ESCULENTUM.

Eight to ten inches in circumference. Each, 10c.; per doz., \$1.00.

MADEIRA VINE.

Each, 5c.; per doz., 50c.

GLOXINIAS.

Mixed Varieties. Each, 10c.; per doz., \$1.00.

TUBEROUS BEGONIAS.

The tuberous-rooted begonias are among the handsomest of summer-flowering bulbs, as they bloom continuously throughout the summer.

Single.		Double.	
Each.	Per Doz.	Each.	Per Doz.
Scarlet.....	.06 .60	Scarlet.....	.10 \$1.00
Orange.....	.06 .60	Orange.....	.10 1.00
Crimson.....	.06 .60	Crimson.....	.10 1.00
Pink.....	.06 .60	Pink.....	.10 1.00
White.....	.06 .60	White.....	.10 1.00
Yellow.....	.06 .60	Yellow.....	.10 1.00
Mixed.....	.06 .60	Mixed.....	.10 1.00

TUBEROSE.

Large bulbs. Each, 5c.; per doz., 50c.; per 100, \$3.00.

LAWRENCE DAHLIAS.

Direct from the growers at Elmwood Dahlia Farm.

Selected for variety of color, and for form, size, and perfection of bloom. All bulbs mossed and started, and ready for early flowering. Stock for shipment, May 15th to June 1st. Each, 15c.; per dozen, \$1.35.

Caladium and Dahlias ordered by mail are subject to an extra charge of twenty cents per dozen for postage.

All other Bulbs ordered by mail are subject to an extra charge of five cents per dozen for postage.

SPRING BLOOMING DUTCH BULBS.

FOR FALL PLANTING.

To the lover of flowers there are few prized as those which are produced from bulbs. The reason is easily found. Within the bulbs are stored all the future glory of leaves and flowers, only requiring the simplest culture to develop them in their highest perfection, and with no other material can be secured such a wealth of charming flowers of infinite variety of form and coloring, with so little trouble and at so small an outlay. Our sources of supply are the best, the leading growers having for years supplied us with their choicest stock, and we solicit your patronage. Special prices to florists, and those ordering large quantities.



TULIP.



HYACINTH.

BULB CATALOG ISSUED IN SEPTEMBER.

BOOKS

ON THE FARM, ORCHARD AND GARDEN.

All books sent postpaid on receipt of price.

Amateur's Practical Garden Book.....	\$1.00	Greenhouse Management.....	\$1.50
American Apple Orchard.....	1.00	Home Vegetable Garden.....	1.00
American Peach Orchard.....	1.00	How to Make a Flower Garden.....	1.60
Asparagus Culture.....	.50	How to Make the Garden Pay.....	1.00
Beekeeping Explained, Mysteries of.....	1.00	Insects and Insecticides.....	1.50
Beginners' Guide to Fruit Growing.....	.75	Insects Injurious to Fruits.....	2.00
Bommer's Method of Making Manure.....	.25	Insects Injurious to Vegetables.....	1.50
Bulbs and Tuberous-Rooted Plants.....	1.50	Key to Profitable Stock Raising.....	.25
Butter Making, A B C in.....	.50	Making Poultry Pay.....	1.00
Cabbage, Cauliflower and allied Vegetables.....	.50	Melon Culture.....	.50
Canary Birds.....	.50	Modern Methods of Testing Milk and Milk Products.....	1.00
Celery Culture.....	.50	Mushrooms—How to Grow Them.....	1.00
Chemistry of the Farm.....	1.25	New Onion Culture.....	.50
Clean Milk.....	1.00	New Rhubarb Culture.....	.50
Crops, Spraying.....	.50	Potato Culture, A B C of.....	.50
Culinary Herbs.....	.75	Poultry Craft.....	1.50
Dairy Farming.....	1.00	Poultry Diseases.....	.75
Draining Land.....	1.00	Profits in Poultry and Their Profitable Management.....	1.00
Duck Culture.....	.75	Pruning Book.....	1.50
Egg Farm, New, Revised and Enlarged.....	1.00	Silos, Ensilage and Silage.....	.50
Farm Drainage.....	1.00	Small Fruit Culturist.....	1.00
Farm Grasses of the U. S.....	1.00	Strawberry Culture, The A B C of.....	.50
Farm of Four Acres, Our.....	.30	Strawberry Culturist.....	.25
Farm Manures.....	1.50	The Book of Corn.....	1.50
Feeds and Feeding.....	2.25	The Potato.....	.75
Ferns and How to Grow Them.....	1.10	The Soil.....	1.25
Fertilizers and Crops.....	2.50	Tomato Culture.....	.50
First Lessons in Dairying.....	.50	Turkeys, How to Raise Them.....	1.00
Fruit Harvesting, Marketing, Storing.....	1.00	Vegetable Gardening.....	1.75
Gardening for Pleasure. New and Enlarged Edition.....	1.50	Weeds of the Farm and Garden.....	1.50
Gardening for Profit. New and Enlarged Edition.....	1.50	Window Flower Garden.....	.50
Greenhouse Construction.....	1.50	Young Farmer. Some Things He Should Know.....	1.50

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF HILLS OR LENGTH OF DRILLS.

Asparagus.....	1 ounce....	50 feet of drill	Melon, Musk.....	1 ounce....	60 hills
Beet.....	1 ounce....	50 feet of drill	Mustard.....	1 ounce....	40 feet of drill
Beans, Dwarf.....	1 quart....	100 feet of drill	Okra.....	1 ounce....	40 feet of drill
Beans, Pole.....	1 quart....	150 hills	Onion.....	1 ounce....	100 feet of drill
Carrot.....	1 ounce....	100 feet of drill	Onion sets.....	1 quart....	50 feet of drill
Celery.....	1 ounce....	100 feet of drill	Parsley.....	1 ounce....	150 feet of drill
Corn.....	1 quart....	200 hills	Parsnip.....	1 ounce....	150 feet of drill
Cress.....	1 ounce....	100 feet of drill	Peas.....	1 quart....	75 to 100 feet of drill
Cucumber.....	1 ounce....	50 hills	Pumpkin.....	1 ounce....	20 to 25 hills
Dandelion.....	1 ounce....	150 feet of drill	Radish.....	1 ounce....	100 feet of drill
Kale.....	1 ounce....	150 feet of drill	Salsify.....	1 ounce....	50 feet of drill
Kohlrabi.....	1 ounce....	200 feet of drill	Spinach.....	1 ounce....	50 feet of drill
Leek.....	1 ounce....	150 feet of drill	Squash, bush variety.....	1 ounce....	50 hills
Lettuce.....	1 ounce....	125 feet of drill	Squash, running variety.....	1 ounce....	15 hills
Martynia.....	1 ounce....	50 hills	Turnip.....	1 ounce....	150 feet of drill
Melon, Water.....	1 ounce....	30 hills			

TABLE SHOWING THE QUANTITY OF SEED USUALLY SOWN UPON AN ACRE.

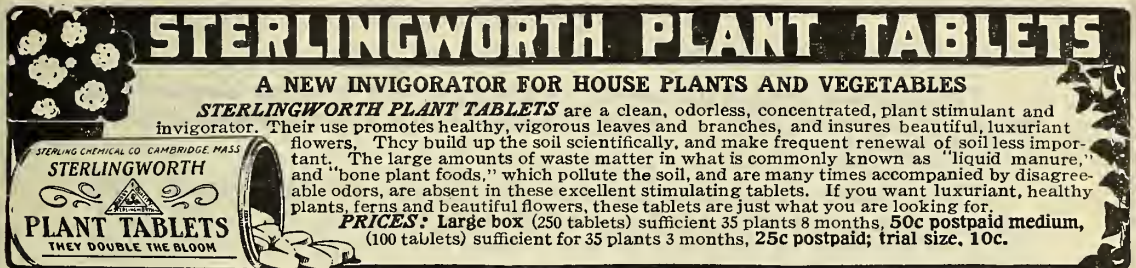
Lbs. per bush.		Lbs. per bush.	
Alfalfa	20 lbs.	Millet, German	50 1 bu.
Barley, broadcast	2 to 3 bu.	Millet, Japanese	about 40 25 lbs.
Beans, Dwarf, in drills	1½ bu.	Oats, broadcast	32 2 to 3 bu.
Beans, Pole, in hills	10 to 12 qts.	Onion, in drills	5 lbs.
Beets, Mangel Wurzel	5 lbs.	Onion Sets, in drills	32 6 to 12 bu.
Beets, Table, in drills	6 lbs.	Parsnip, in drills	5 lbs.
Buckwheat	1 bu.	Peas, smooth (field varieties), broadcast	60 3 bu.
Cabbage, in beds to transplant	4 to 5 ozs.	Peas, wrinkled, in drills	1¼ bu.
Carrot, in drills	3 to 4 lbs.	Perennial Rye Grass	24 2½ to 3 bu.
Clover, Alsike	10 lbs.	Potatoes (cut tubers)	60 10 to 12 bu.
Clover, Crimson	20 lbs.	Pumpkin, in hills	3 lbs.
Clover, Red	15 to 20 lbs.	Radish, in drills	8 to 10 lbs.
Clover, White	8 to 10 lbs.	Rhode Island Bent, chaff seed	10 3 bu.
Corn, for fodder, in drills	1½ to 1½ bu.	Rhode Island Bent (fancy recleaned)	40 20 lbs.
Corn, in hills	10 qts.	Rough Stalked Meadow ..	14 2½ to 3 bu.
Creeping Bent	3 bu.	Rye, broadcast	56 1½ to 2 bu.
Crested Dogtail	1½ to 2 bu.	Sage, in drills	8 to 10 lbs.
Cucumber, in hills	2 lbs.	Sheep Fescue	12 2½ to 3 bu.
English Rye Grass	3 bu.	Spinach, in drills	10 to 12 lbs.
Fine-leaved Fescue	35 lbs.	Squash (bush varieties), in hills	2½ lbs.
Foul Meadow	2 bu.	Squash (running varieties), in hills	4 lbs.
Grass, Hungarian ..	1 bu.	Sweet Vernal (annual)	10 2 bu.
Grass, Lawn	3 bu.	Sweet Vernal (perennial)	10 2 bu.
Grass, Kentucky Blue	3 bu.	Tall Fescue	14 2 bu.
Grass, Orchard	3 bu.	Tall Meadow Oat Grass	14 4 to 5 bu.
Grass, Red Top (recleaned)	about 32 6 to 8 lbs.	Tobacco	1 oz.
Grass, Timothy	45 ½ bu.	Tomato, to transplant	4 ozs.
Hard Fescue	30 lbs.	Turnip, broadcast	2½ to 3 lbs.
Italian Rye Grass	18 2½ to 3 bu.	Turnip, in drills	1½ to 2 lbs.
Meadow Fescue	15 2 bu.	Various Leaved Fescue	30 lbs.
Meadow Foxtail	7 3 bu.	Vetches (see page 36)	
Melon, Musk, in hills	2 to 3 lbs.	Wheat, broadcast	60 1½ to 2 bu.
Melon, Water, in hills	4 to 5 lbs.	Wood Meadow	14 2 to 2½ bu.

STERLINGWORTH PLANT TABLETS

A NEW INVIGORATOR FOR HOUSE PLANTS AND VEGETABLES

STERLINGWORTH PLANT TABLETS are a clean, odorless, concentrated, plant stimulant and invigorator. Their use promotes healthy, vigorous leaves and branches, and insures beautiful, luxuriant flowers. They build up the soil scientifically, and make frequent renewal of soil less important. The large amounts of waste matter in what is commonly known as "liquid manure," and "bone plant foods," which pollute the soil, and are many times accompanied by disagreeable odors, are absent in these excellent stimulating tablets. If you want luxuriant, healthy plants, ferns and beautiful flowers, these tablets are just what you are looking for.

PRICES: Large box (250 tablets) sufficient 35 plants 8 months, 50c postpaid medium, (100 tablets) sufficient for 35 plants 3 months, 25c postpaid; trial size, 10c.



BOWKER'S PLANT FOOD.

For Stimulating Growth and Rapidly Developing the Plant Organism.

15c. and 25c. per package.

LAWN SILICATE.

KILLS ALL WEEDS IN THE LAWN.

Easily applied. Economical to use. Absolutely sure to work.

Will destroy Dandelion, Plantain, Buckhorn, Poverty Weed, Chickweed, Burdock, Thistles, etc.

Lawn Silicate is a granular powder applied as a top dressing to lawns. It adheres to the weeds, because of their flat and somewhat hairy leaves and stems, and where they radiate from a central sunken stem, penetrates into the bud, is absorbed and the weed is fairly burned up. It does not injure grass, and is, in fact, a benefit. A five-pound package is sufficient for about 500 square feet of lawn, provided the weeds are somewhat scattered.

PRICE—5 pound package, 35c.; 10 pound package, 60c.

The Man with the Hoe Wants a Good Fertilizer.

"For the land's sake" give him

BOWKER'S.

Don't do a good job with the hoe and a poor one with the fertilizer. As long as you must hoe, why not have the best possible crops to show for it? Thorough cultivation, coupled with the right fertilizer, and enough of it, will increase the production and profits of any farm.

GOOD POTATOES WANTED.

A prominent commission merchant writes: "How many complaints I hear to the effect '*How poor the potatoes are this year*'. The man who produces a good eating potato will be a winner just as sure as the man who produces a better quality of apples—(a thing which has already been done)—and consumers I think would willingly pay a higher price."

The market wants good eating, medium size, potatoes.

YOU CAN GROW THEM WITH STOCKBRIDGE POTATO MANURE.

The best potato is a *ripe* potato. The Stockbridge produces not only a large yield, but it hastens maturity and *ripens* the crop. In our Potato Contests of 1912 and 1913, we had the following quality crops.

*31 crops of over 300 bushels per acre;
17 of them over 400 bushels per acre;
4 of them over 500 bushels per acre.*

The Census gives 148 bushels as the average yield for New England and 94 for the whole country. The average yield in our two contests (53 acres) is 329.98 bushels.

These results were not all due to the climate, for that varied; they were not due to the seed, for that varied; they were not due to the planting or cultivation, or the general care of the crop, for all these varied with the different growers.

The one thing that did not vary was the fertilizer, which was the STOCKBRIDGE POTATO MANURE and even if that varied in the amount applied, it did *not vary* in the plant food supplied.

Will it not pay you to consider using the Stockbridge on your farm the coming spring for all kinds of crops?

Write us about your fertilizer plans and ask for quotations.

BOWKER FERTILIZER COMPANY,
43 Chatham Street, - Boston

KENDALL & WHITNEY, Agents, - - Portland

"The World's Best by Every Test."

BRADLEY'S COMPLETE FERTILIZERS

Supply the available plant food elements required, and they also help to overcome unfavorable conditions of weather and soil, maintaining an adjustment between the needs of the crop and the varying climatic conditions, which it is impossible for incomplete mixtures or single element materials to do.

Bradley's Complete Fertilizers promote early and continuous growth, bring maturity at proper time for harvesting, and **they keep up the balance of soil fertility.**

BRADLEY'S FERTILIZERS are compounded of the HIGHEST GRADE MATERIALS skillfully combined in proper proportions, carefully and thoroughly manufactured to a PERFECT MECHANICAL CONDITION.

A full stock of the following standard fertilizers constantly on hand:

Bradley's XL Superphosphate, 1916,

Bradley's Potato Manure, 1916,

Bradley's Potato Fertilizer, 1916,

Bradley's Eclipse Phosphate, 1916,

Bradley's Corn Phosphate, 1916,

Bradley's Special Complete Manure for Top-dressing Grass and Grain, 1916.

Bradley's Complete Manure for Corn and Grain, 1916,

Bradley's Complete Manure for Potatoes and Vegetables, 1916.

Grass and Lawn Top Dressing, 1916.

The best time to apply this fertilizer to grass land is just after the frost is out. The spring rains quickly dissolve it and wash the plant food within reach of the grass roots. When grass becomes run out it is best to plow the land, cultivate one season and then reseed, but when there is a good sod the yield of hay can be kept up for a long period by using this fertilizer as a top dressing.

It makes a lawn *more luxuriant* and obviates the necessity of offending the senses by applying stable manure to the home grounds.

It is sown broadcast like grass seed and at the rate of six hundred to eight hundred pounds per acre.

A QUICK-ACTING FERTILIZER FOR TOP DRESSING GRASS.

For top dressing mowing lands and lawns, for oats and general application where it is desired to supply an unusual quantity of nitrogen in a quick-acting form, the one best fertilizer to use is three hundred to eight hundred pounds per acre of

THE A. A. C. CO.'S
SPECIAL
Grass and Garden Mixture, 1916.

The American Agricultural Chemical Company.

BRADLEY FERTILIZER WORKS,

92 State Street, Boston.

KENDALL & WHITNEY, Agents, - - - - - Portland.

Chemicals and Fertilizers.

Sulphate of Ammonia. 20.16 per cent. nitrogen; 24.50 per cent. ammonia. In 200 pound bags.

Kainit. 22.19 per cent. sulphate of potash; 12 per cent. actual potash. In 200 pound bags.

Dried Blood. 9.87 per cent. nitrogen; 12 per cent. ammonia. In 200 pound bags.

Ground Tankage. 6 per cent. ammonia; 30 per cent. bone phosphate of lime. In 200 pound bags.

Slag. 17 to 19 per cent. total phosphoric acid. In 200 pound bags.

Dissolved Bone Black. 15 to 17 per cent. soluble and available phosphoric acid. In 200 pound bags.

Muriate of Potash. 77.53 per cent. muriate of potash; 49 per cent. actual potash. In 200 pound bags.

Nitrate of Soda. 15 per cent. nitrogen; 18.23 per cent. ammonia. In 200 pound bags.

Sulphate of Potash. 88.75 per cent. sulphate of potash, 48 per cent. actual potash. In 200 pound bags.

Plain Superphosphate or Acid Phosphate. 12 to 14 per cent. available phosphoric acid. In 200 pound bags.

PURE GROUND BONE.

4 to 5 per cent. ammonia, 21 to 23 per cent. phosphoric acid.

A valuable fertilizer, especially for lawns, vines and fruit trees.

ASHES.

Unbleached, hard wood ashes, put up in 100 lb. bags. Especially valuable for lawns.

SHEEP MANURE.

A pure, natural manure, and the most nutritious food for plants. Its effect is immediate and lasting; it is clean to handle, and is the best of all manures for mixing with the soil for greenhouse plants. As a lawn top-dressing it is unequalled. For mixing with soil, take one part of manure to six parts soil. For making a liquid, take one pound manure to five gallons of water, which can be used with safety daily, if necessary.

SHREDDED CATTLE MANURE.

Packed especially for florists and greenhouse vegetable growers. In 100 lb. bags only.

PRICES QUOTED ON APPLICATION, ON ALL FERTILIZERS.

AGRICULTURAL LIME.

Especially prepared for agricultural purposes, and, being finely ground, it can be used in any broadcaster. Many plants and all grains show a decided increase, and are greatly benefited by the use of lime, as it corrects all acidity of the soil, sweetening it, and freeing it from impurities.

HOW TO TEST THE SOIL FOR ACIDITY.—Take a little soil from the field and place it in a saucer, moisten it well with water and place in it a little piece of blue litmus paper. If within twenty-four hours the litmus paper changes to a red color, the soil is acid and an application of lime should be added at the rate of from 1,000 to 2,000 pounds per acre.

For the ordinary piece of land that requires lime it will be found that once in the rotation of crops, or, say once in four years, is as often as lime should be applied, as it will hold the land in its proper condition for that length of time. Price, 100 lb. bags, 50c.; ton, \$9.00.

BORDEAUX LIME.

Prepared expressly for use in making Bordeaux Mixture; is finely powdered, and ready for immediate use. Price, 100 lb. bags, 85c.

LAND PLASTER.

Price—Bag of 100 lbs., 50c.; ton, \$9.00.



To Secure Better Results with

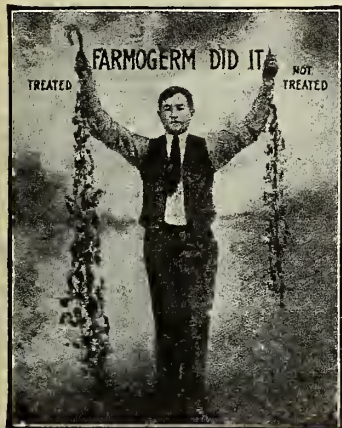
Sweet Peas, Garden and Field Peas, Garden Beans,
 Soja Beans, Cow Peas, Clover, Alfalfa,
 and other legumes,

USE FARMOGERM.

WHAT FARMOGERM IS—WHAT FARMOGERM WILL DO.

Farmogerm is a pure culture, or growth of nitrogen-fixing bacteria that have been selected and bred up to transform large amounts of nitrogen from the air into soluble nitrates.

Unless the soil is very acid or wet (in which case it should be drained and limed), Farmogerm will:—



Increase the yield and quality of legume crops, giving quicker growth and earlier maturity.

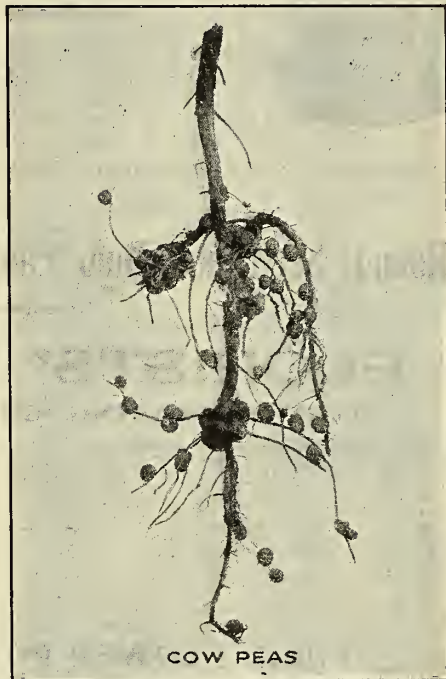
Increase the food value of legumes.

Make legumes grow in new localities where they cannot otherwise be grown successfully.

Supply nitrates to other crops growing with the inoculated legume crop.

Enrich the soil for future crops.

In ordering Farmogerm be sure to state which legume you wish to use it with.



PRICE (in glass bottle).

Regular or Farm Size, 5 acres, \$9.00;
 Farm Size, 1 acre, \$2.00;
 Garden Size, 1-4 acre, \$.50;
 Half Garden Size, 1-8 acre, \$.25

TOMATO AND PLANT SUPPORT.

Designed especially to protect tomatoes, peonies, small shrubs, and tall growing plants.



BARTLETT.

THE BARTLETT.

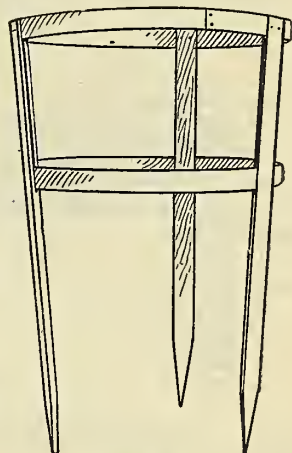
MADE FROM HARD WOOD, WITH WIRE HOOPS.

Price, 20 cents each; \$1.75 per dozen.

THE BRYANT.

MADE OF HARD WOOD STANDARDS AND WOOD HOOPS.

Price, 15 cents each; \$1.50 per dozen.



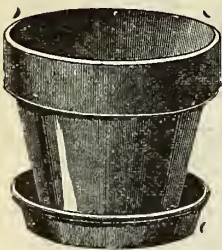
BRYANT.



ARLINGTON PLANT PROTECTOR.

Price, 15 cents each; \$1.50 per dozen.

STANDARD FLOWER POTS.



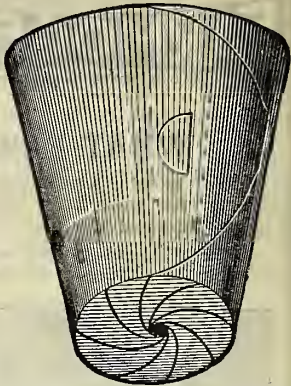
Inches.	Pots. Per dozen.	Saucers. Per dozen.
2	\$.10	
2½	.12	
3	.15	\$.12
3½	.20	.15
4	.25	.18
5	.40	.24
6	.60	.32
7	.90	.45
8	1.25	.60
9	1.75	.75
10	3.00	.95
11	3.50	1.10
12	5.00	1.35
14	9.00	2.25

Measurement from inside to inside. Width and depth equal.

NEPONSET PAPER FLOWER POTS.

Manufactured from fabric which gives them all the necessary rigidity. They are unbreakable and give ample drainage.

Size.	Per 100.	Per 1,000.
2¼	\$.30	\$ 2.40
2½	.35	2.80
3	.40	3.85
3½	.60	5.25
4	.75	6.60
5	1.25	11.00
6	1.65	14.70



Round Seed and Bulb Pans.

Inches.	Each.	Per doz.
6	\$.07	\$.72
7	.08	.85
8	.10	.96

Inches.	Each.	Per doz.
9	\$.13	\$1.35
10	.18	1.60
12	.30	3.50

Special quotations to florists.

FLORISTS' VASES.

FOR DISPLAYING CUT FLOWERS.

No.	0	8 inches in diameter,	13	inches deep.	.....	\$.60 each
"	1	5½	"	10	"	..... .50 "
"	2	4½	"	9	"	..... .45 "
"	3	4	"	6	"	..... .40 "
"	4	3	"	4½	"	..... .30 "
"	00	9	"	22	"	..... 2.30 "
"	01	7	"	20	"	..... 1.20 "
"	11	5½	"	18	"	..... .60 "
"	22	4½	"	15	"	..... .50 "
"	33	4	"	12	"	..... .45 "
"	44	3	"	9	"	..... .40 "



FIBRE FLOWER POT SAUCERS.

No moisture passes through to injure table, floor or carpet.

TRELLISES.

No.	Each.	Per doz.
00, 18-in. stick, 3½ in. wide	\$0.06	\$0.60
" 00 wide, 20-in stick, 8 in. wide	.12	1.25
" 0, 24-in. stick, 5 in. wide	.12	1.25
" 0 wide, 24-in. stick, 8 in. wide	.15	1.50

Bow TRELLIS.

No.	Each.	Per doz.
0½, 24x 7½ in.	\$0.25	\$ 2.40
" 1, 30x10 in.	.30	3.00
" 2, 30x14 in.	.40	4.50
" 3, 36x12 in.	.50	5.25
" 3½, 42x14 in.	.55	6.00
" 4, 48x15 in.	.65	7.00
" 5, 60x18 in.	.80	8.50
" 6, 72x20 in.	.95	10.00

CROSS TRELLIS.

	Each.	Per doz.
24x15 in.	\$0.45	\$5.00
42x24 in.	.55	6.00



Veranda Trellis.

IVY TRELLIS.

	Each.	Per doz.
16-in. diameter	\$0.55	\$ 6.50
20-in. "	.70	8.00
24-in. "	.85	10.00

FAN TRELLIS.

	Each.	Per doz.
1½ ft.	\$0.15	\$1.50
2 ft.	.20	2.00
2½ ft.	.30	3.00

VERANDA TRELLIS.

	Each.
2 ft.	\$0.45
3 ft.	.50
4 ft.	.60
5x1½ ft.	.95
6x1½ ft.	1.15
7x1½ ft.	1.25
8x1½ ft.	1.50
9x1½ ft.	1.75
10x1½ ft.	2.00
11x2 ft.	2.25
12x2 ft.	2.50

PLANT STICKS.

From one and one-half to six feet in length, used for supporting single stalks of roses, dahlias, etc.

	Per doz.	Per 100.
1½ feet, painted green	\$.20	\$1.12
2 " " "	.25	1.75
2½ " " "	.35	2.50
3 " " "	.50	4.00
4 " " "	.70	5.50
5 " " "	.95	7.50
6 " " "	1.20	9.50

WOOD POT LABELS.

	PLAIN. Per 1,000.	PAINTED. Per 1,000.
4 inch	\$.50	\$.70
4½ inch	.60	.80
5 inch	.70	.95
6 inch	.90	1.20

WOOD TREE LABELS.

3½ inch (copper wire), painted	\$1.20
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BOUQUET HOLDERS.

No. 1, Small, iron.....	20 cents
No. 2, Medium, iron	25 cents
No. 3, Large, iron.....	30 cents

FOLDING LAWN SETTEE.

Made from hard wood and finished in varnish and vermilion.

Price, \$1.00.

**CROQUET.**

We carry a complete assortment, manufactured from selected hard wood, handsomely painted and varnished.

90 cents to \$4.00 per set.

**"IRON AGE"
HORTICULTURAL
ROW INDEX.**

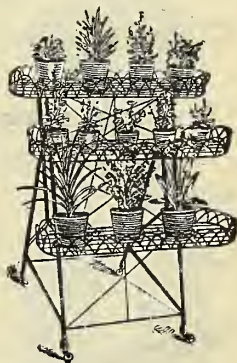
Made of galvanized iron, the label protected by sheet of mica. Will be found indispensable for private gardens, trial grounds, greenhouses, parks, etc.

Price, 18 inch, 15c. each.

" per dozen, \$1.50.

**WIRE
PLANT
STANDS.**

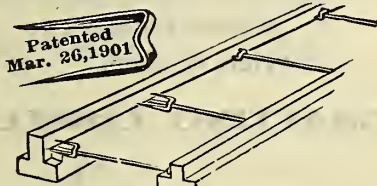
1 shelf, folding,	\$1.75
2 " "	2.50
3 " "	3.25
4 " "	3.75

**TROWBRIDGE'S GRAFTING WAX.**

The finest quality made, put up in neat packages with directions for use.

25c. per lb.; $\frac{1}{2}$ lb. packages, 15c.; $\frac{1}{4}$ lb. packages, 10c. By mail, 5c. per lb. extra.

Beeswax, 40c. per lb. By mail, 5c. per lb. extra.

"Peerless" Glazing Points.

Made from galvanized steel wire; are cheap and indestructible. Easy to apply and perfectly satisfactory to use. Per 1,000, 60 cts.; by mail, 65 cts.

Self-Registering Thermometer. Registers accurately the coldest, also the warmest point of temperature. \$3.25 each.

Hot Bed Mats. Best rye straw, 6 x 6 feet. \$1.50 each.

Tinfoil. For bouquets. Lb., 15 cts.

Twine, Soft. For tying vines, etc. Large balls, 15 cts.

Tarred Yarn. Low priced material for raspberries, shrubs, etc. Lb., 12 cts.

NATURAL COLORED RAFFIA.

The best material for tying plants; very soft, strong and pliable. **Fine, long, selected raffia for fancy work. 20 cts. per pound.**

Colored Raffia (all shades), 10 cts. per package.

"JIMMY" WEEDER

Roots out Dandelions, Plantains, Russian Thistle,
and other weeds.

Pulls tap root and all without disturbing the sod.



Price, 25 cents.

PRUNING SHEARS.

American	35c. and 50c.
French wheel spring, 8 in.	\$1.25
" 9 "	1.50
" 10 "	1.75

SHEEP SHEARS.

True Vermonter, 5½ inch, \$.85

True Vermonter, 6 inch, 1.00

GRASS SHEARS.

Sheep shears style, for trimming grass, 25 to 50 cents.

Lightning shears style, for trimming grass, 40 cents.

**HEDGE SHEARS.**

8 inch.....	\$1.35
9 inch.....	1.50
10 inch.....	1.75

BORDER SHEARS.

With Long Handle.

8 inch	\$1.75
9 inch	2.00
10 inch	2.50
With wheel, 50 cents extra.	

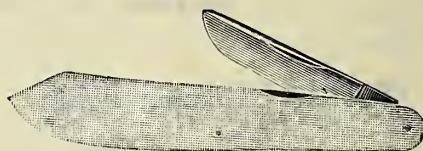
PRUNING AND BUDDING KNIVES.

All knives thoroughly well made; strong handle, extra quality steel blades.



PRUNING KNIFE.

Price, 50 cents to \$1.00.

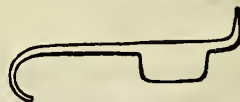


BUDDING KNIFE.

Price, 60 cents.

HAZELTINE WEEDER.

Price, 25 cents.

GRAFTING CHISEL.

Price, 60 cents.

EXCELSIOR WEEDER.

This instrument will work well among rows or seedlings and ornamental plants,
or in any place where freedom from weeds is desired.

Price, 10 cents.



STANDARD TREE PRUNER.

Is the lightest device made for the purpose.

Will cut as large wood as any other device that is practical to handle.

Will clip the slightest twig on the extreme end of the limb.

Prices.

8 feet.....	\$.85	14 feet.....	\$1.10
10 feet.....	.90	16 feet.....	1.15
12 feet.....	1.00	Extra blades.....	.15

CLYDE IMPROVED DRAW CUT PRUNER.

Solid steel blade and hook. Positive draw cut. Hand forged, with four-inch pressed steel ferrules and caps.

Price.

No. 5400. 24-inch handles.....	\$2.00
No. 5401. 22-inch handles.....	1.75

ROCKDALE PRUNER.



Price.

No. 35, 26 in. long,	\$.75
No. 38, 41 in. long,	1.00

KING PRUNER.

WITH ROPE PULL.

No danger of receiving shock by crossing electric wires, as they are operated by a cord running the entire length of pole. These pruners are made from a fine quality of steel and carefully tested, the cutters are concaved, making the easiest cut possible, and can readily be taken apart for grinding, etc.

Price.

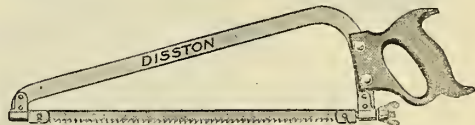
12-foot pole.....	\$1.00
14-foot pole.....	1.10
16-foot pole.....	1.15
18-foot pole.....	1.35
20-foot pole.....	1.75

PRUNING SAWS.

MADE FROM BEST QUALITY STEEL, WITH HARD WOOD HANDLES.



No. 4.



No. 9.

No. 4. 13-inch polished steel blade, with double sawing edge, **85 cents.**

No. 4. 20-inch polished steel blade, with double sawing edge, **95 cents.**

No. 9. Steel frame, with adjustable steel blade, **\$1.10.**

This style saw is especially desirable for use in narrow spaces.

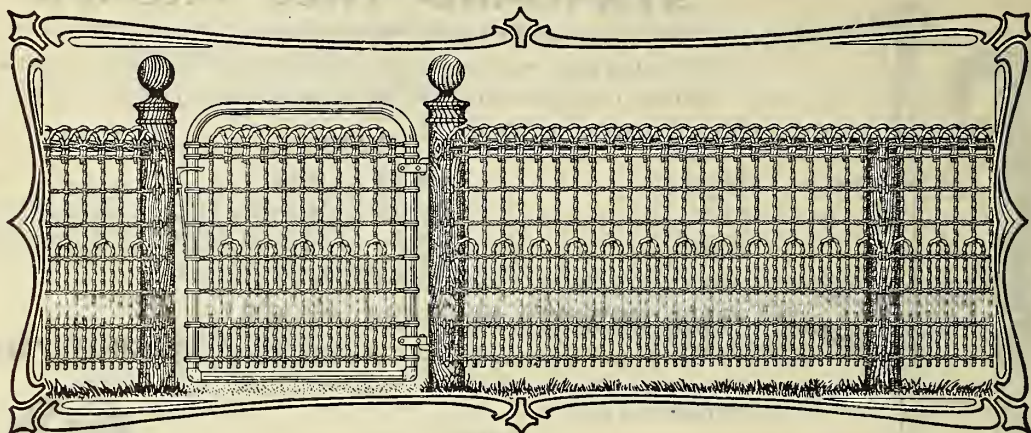
ASPARAGUS KNIFE.



Valuable, not only for cutting asparagus, but for cutting out all deep rooted weeds from the lawn, such as plantain, thistles, dandelion, etc.

Price, 35 cents.

WAUKEGAN-CYCLONE SANITARY WIRE FENCING.

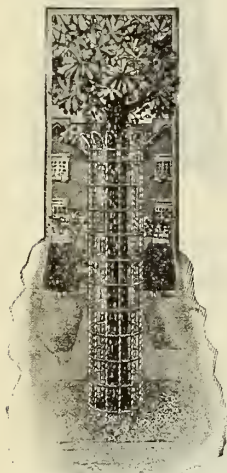


Style "F" fabric shown above on ordinary wood posts, opens up the yard to fresh air and sunlight, creates healthy playgrounds out of unsanitary back yards and makes gardens, flower beds, lawns, etc., possible.

Pickets are all No. 9 heavily galvanized wire, spaced $2\frac{7}{8}$ inches apart at top, $1\frac{1}{2}$ at bottom, making fence absolutely chicken-proof.

Best heights are 36, 42 and 48 inches.

STYLE "F" FABRIC, PRICE PER LINEAL FOOT: 36 inch, 11c.; 42 inch, 12c.; 48 inch, 14c.



CYCLONE TREE GUARD.

Furnished with spiral spring, ready for setting up by clasp ing hooked ends.

Protects the tree without shading, rubbing or bruising the bark.

Made 6 feet high, of heavily galvanized wire.

PRICE: 9 inches diameter, 75c.

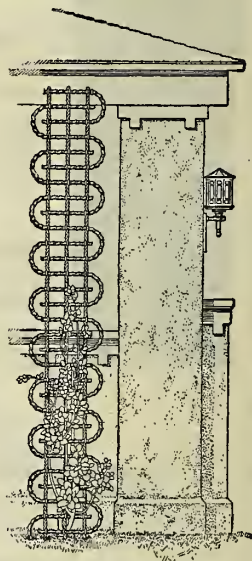
CYCLONE SINGLE TRELLIS.

The most practical trellis made for climbing vines and flowers.

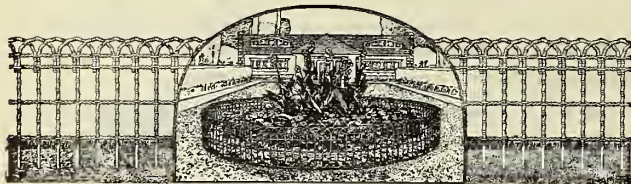
Easily placed in position. Cut to any length. Can be used for years, making an extra, low priced trellis that adds to the beauty of porch and home.

PRICE PER LINEAL FOOT:

18 inch, 6c.



PERFECTION FLOWER GUARD.



Affords ample protection against dogs, cats, chickens, etc., besides keeping children from running over flower beds. Fits any shape or size of flower bed. No posts necessary. Picket ends are left straight for inserting in the ground.

Pickets No. 9, cables No. 13 heavily galvanized wire. Made in two heights.

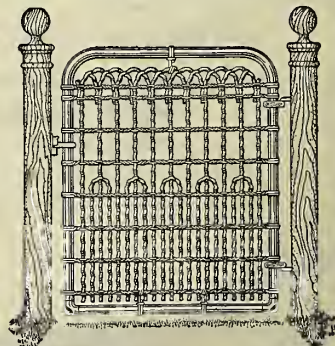
PRICE PER LINEAL FOOT: 16 inch, 6c.; 22 inch, 7c.

UNIVERSAL GARDEN GATES.

They are low-priced, strong, practical, durable.

Choice of 36, 42 or 48 inch heights.

PRICE:
3 foot opening,
\$2.25.



Write for prices on 8, 10, 12, 14 and 16 foot Farm Gates.

PENNSYLVANIA
Quality

LAWN MOWERS.

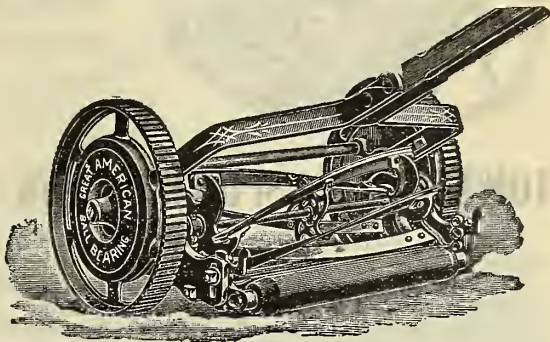
By "Pennsylvania Quality" is meant absolutely the best that can be put into lawn mower construction. All blades are crucible tool steel, oil tempered and hardened, and all castings are reamed and machined to fit perfectly, insuring easy cutting and long life.

Great American Ball Bearing.

This machine is one of the most popular of the line and consequently is more imitated than any other lawn mower manufactured. **Raised edge, self-sharpening** lower knife, highest grade ball bearings, smooth running, are special features.

10-inch driving wheels. 5 blades.

Sizes.	Prices.
15 inch.....	\$ 9.50
17 ".....	10.50
19 ".....	11.50
21 ".....	12.50

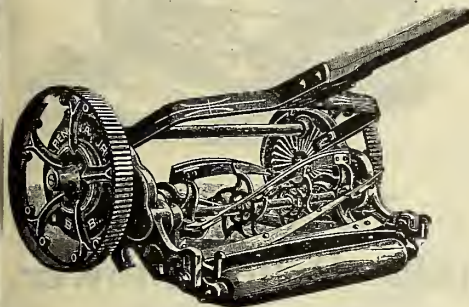


Pennsylvania Junior Ball Bearing.

The highest grade lawn mower made. A train of three gears on each side drive the 5-blade cylinder, insuring easy running. **Raised edge, self-sharpening** lower knife.

10-inch wheels.

Sizes.	Prices.
15 inch.....	\$13.00
17 ".....	14.50
19 ".....	16.00

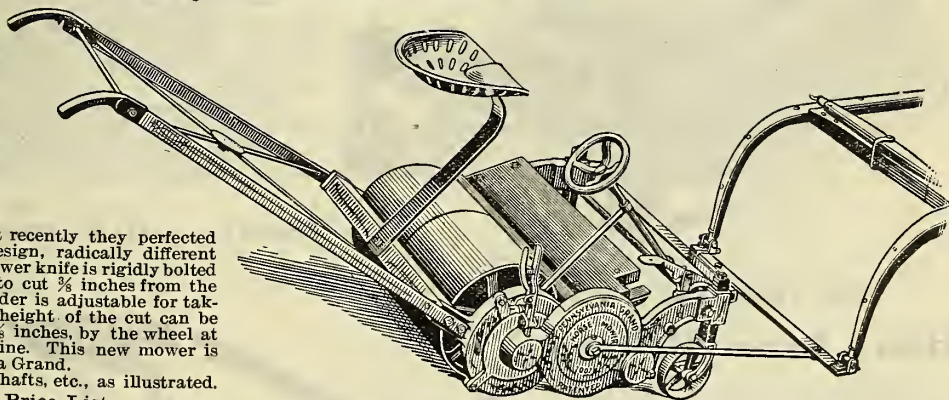


Pennsylvania Grand Horse Mower.

Any product of the Pennsylvania factory insures it being of the highest quality, both in material and workmanship. Until a few seasons ago the factory made only one style of horse mower, that with the lower knife adjustable to the revolving cylinder, similar to the majority of other horse and hand mowers, but recently they perfected and patented a new design, radically different from all others. The lower knife is rigidly bolted to the frame, and set to cut $\frac{3}{8}$ inches from the ground, while the cylinder is adjustable for taking up the wear. The height of the cut can be regulated from $\frac{3}{8}$ to $2\frac{1}{2}$ inches, by the wheel at the right of the machine. This new mower is called the Pennsylvania Grand.

Complete with seat, shafts, etc., as illustrated.

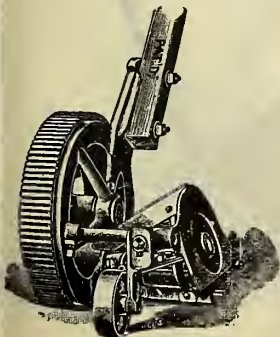
Write for Price List.

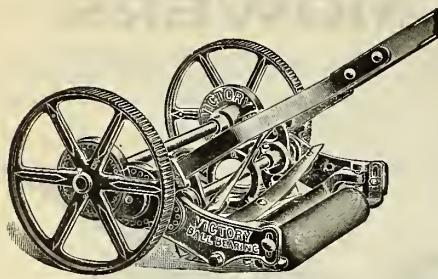


Pennsylvania B. B. Under Cut Trimmer.

This machine is the only one to successfully replace the use of hand shears. The slanting side plate and conical cylinder make it possible to cut all the grass left by the regular style of lawn mower. The unique construction of the **Under Cut Trimmer** permits cutting, not only close up to a wall, fence, trees, etc., but it will get the grass **under** a fence or rock-cut base of tombstones, house foundations, and other places hitherto out of reach of anything but hand shears. For cemeteries it has the special advantages of not **marking** or **smudging** the stones, as the side plate does not come in contact with the stone above the grass line.

Price, \$7.00.





TOWNSEND'S "VICTORY" LAWN MOWER.

Constructed with ball bearings, of the very highest grade. Triple gear, entirely closed, and a removable cutter bar, which, by loosening four small screws, may be rolled out of the machine for sharpening without disturbing the frame.

Width of cut:	14-in.	16-in.	18-in.	20-in.	22-in.	24-in.
Net price:	\$8.00	\$9.00	\$9.50	\$10.00	\$11.00	\$12.00

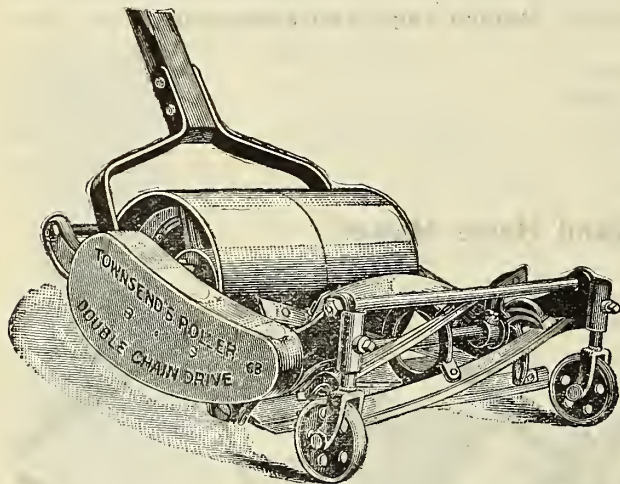
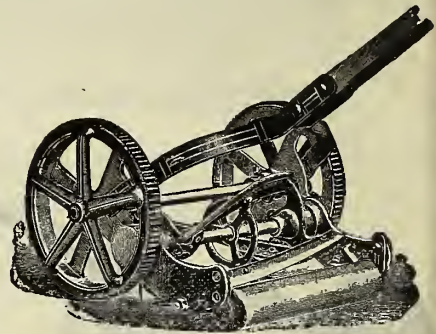
TOWNSEND'S "SPIDER" LAWN MOWER.

Like the Victory, the "Spider" runs and cuts with ease and rapidity.

It is light, strong, and finely made and adjusted, and is one of the best *medium priced* lawn mowers ever offered.

Is ball bearing, has nine-inch wheels, four-bladed open wiper, and a simple and easy adjustment.

Width of cut:	12-in.	14-in.	16-in.	18-in.	20-in.
Net price:	\$6.00	\$7.00	\$7.50	\$8.00	\$8.50



Townsend's Chain Roller Mower.

Designed for Borders and Golf Greens.

Ball bearings of the very highest grade, double driving rolls, eight inches in diameter, sextuple ratchet, almost silent and indestructible, chain drive, light, strong, quiet and easy, and *completely shielded*.

This mower will cut close enough and clean enough to satisfy the most fastidious golfer, and it will run easier and will stay in perfect order longer than any other golf mower.

Sizes:	12-in.	14-in.	16-in.	18-in.
Prices:	\$11.50	\$13.00	\$14.00	\$15.00

THE TOWNSEND

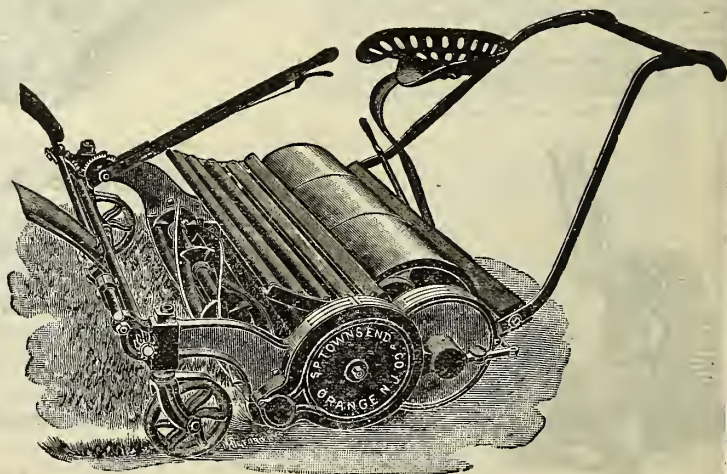
Horse Lawn Mower.

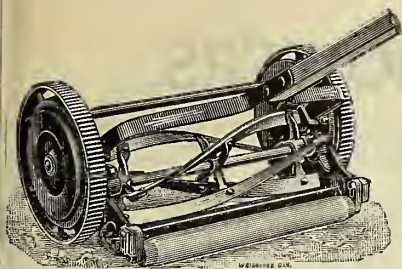
The Townsend Mower has triple rolls, with triple pawls in each roll, making a most powerful and instantaneous driving mechanism. Unlike other mowers, the motion of the blades is maintained even when turning sharp corners. The self-aligning journal boxes will be found in this mower only, and prevent cramping, a very common fault in Horse Lawn Mowers.

All machines are fitted complete with tool-box, seat, handles, shafts, and slide-bar attachment, which keeps the horse on the cut grass.

Width of cut, 30 in., 35 in., 38 in.

Write for Price List.





FEDERAL LAWN MOWER.

8-INCH WHEELS.

THE COMBINED POINTS ARE PRICE, SIMPLICITY, DURABILITY, UTILITY.

Width of Cut.	Net Price.	Width of Cut.	Net Price.
12 inch.....	\$3.00	16 inch.....	\$3.00
14 inch.....	3.00	18 inch.....	3.25

SPEEDY LAWN MOWER.

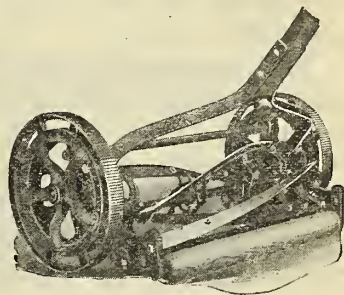
9-inch wheels, with raised rim.

Four-blade cutting reel.

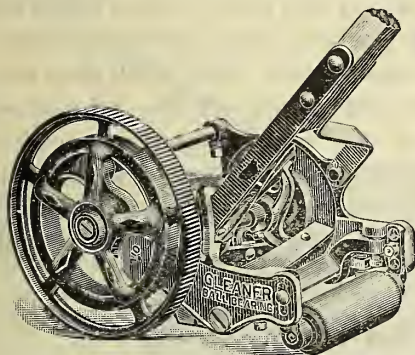
Dust-proof ball bearings.

Durable and easy running.

Width of Cut.	Net Price.
16 inch.....	\$5.00
18 inch.....	5.50



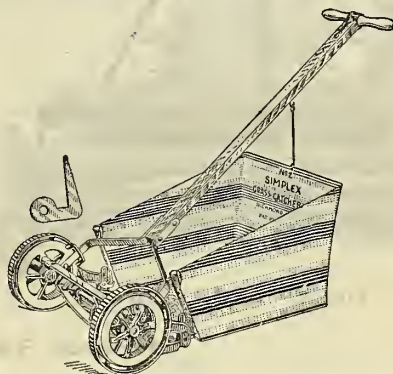
TOWNSEND'S "GLEANER" LAWN TRIMMER.



Does what lawn mowers leave undone. Trims and edges the lawn with remarkable speed and perfection. 9-inch wheel, ball-bearing; 4 steel blades, 8-inch cut. Strictly high grade in every particular.

Price, \$5.00.

"SIMPLEX" GRASS CATCHERS.



Will fit any mower made. Instantly attached and detached. Canvas body, galvanized iron bottom, combining strength with lightness.

No. 1, for 12, 14 and 16-inch mowers.

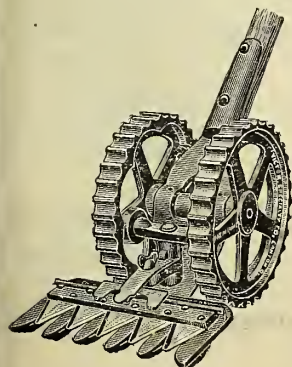
No. 2, for 16, 18 and 20-inch mowers.

Price, \$1.25.

THE CLIMAX GRASS CLIPPER

AND

HANDY LAWN TRIMMER



is intended to substitute the regular mower only where the mower is too large to take care of the work, as when clipping close to a fence or wall, clipping around trees, bushes or flower beds, and when the grass is too tall for the regular mower. The Climax will cut grass of any height.

Price, \$3.00.

POWER LAWN MOWERS.

Many home owners, and others responsible for the care of parks and large lawns, have used a horse-drawn mower, but this method has never been satisfactory, for in spite of the utmost care, you cannot keep the horse from marking up the turf with unsightly hoof prints. In the spring and after a season of rainy weather, a horse attached to a mower can easily spoil a lawn, because his hoof prints are so deep. With a horse-drawn mower it is next to impossible to work neatly and closely around flower beds, shrubbery, trees and walks. It is always necessary to leave a wide margin of straggling, uncut grass that necessitates a great deal of careful hand cutting. With the "Ideal" it is easy to turn corners, and work closely and carefully around shrubbery, trees and flower beds.

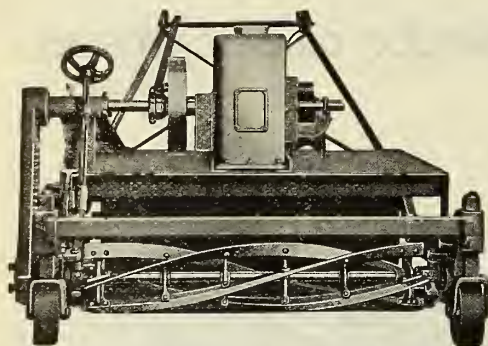
It requires hardly any muscular effort to operate the "Ideal". The handles are used the same as those on a plow, to guide the machine, and the control of the motor lies right under the operator's hand all the time it is running.

For golf clubs, country estates, parks, boulevards, etc., nothing can equal it in economy or efficiency.

The "Ideal" Lawn Mower not only costs less in the first place, but can be operated at a trifling expense.

The "Ideal" costs for oil and fuel only from 20 to 25 cents a day when it is working, and nothing at all when it is not in operation, while the expense of a horse goes on day and night, whether it is working or not.

The "Ideal" is equipped with expanding band clutch for starting mower slow and easy. One chain drives both knives and roller. It has a simple device for idling the knives so mower can be used as a lawn roller. It has a special automobile type throttle governing motor which allows mower to be operated at any desired speed from 1 to 4½ miles per hour. It has gear driven, high tension magneto. It has a brake for holding mower on steep grades. Control mechanism is convenient to operator. It has sufficient power to climb 35% grades. It can be used in places and under conditions where the heavy and expensive power mower would be of little or no use.



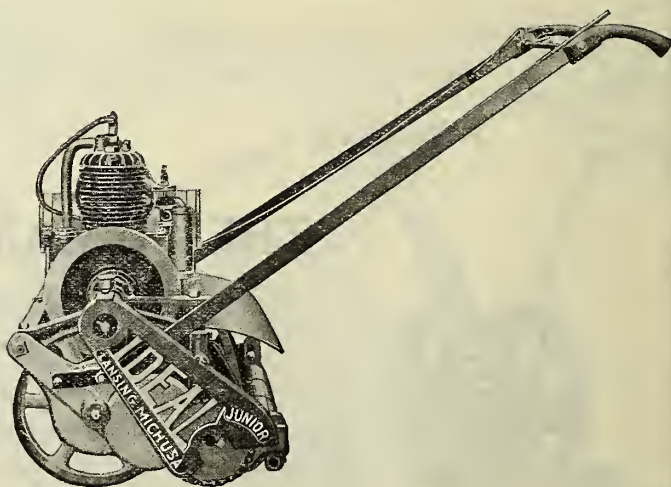
"IDEAL" LAWN MOWER.

Price, 38 inch cut, \$400.00.

The "Junior" is similar in construction and operation to the "Ideal", being, however, of smaller cut, and lower in price.

It is a power mower which has a 25-inch cut, runs at a speed up to and including 4 miles per hour, climbs any grade up to 40%, and operates at a maximum fuel cost of 20 cents for 10 hours' work.

The Power Lawn Mower is a twentieth century efficiency mower, and just the labor saving machine you have been looking for—so simple and easy to run your caretaker enjoys the operation.



"JUNIOR" LAWN MOWER.

Price, 25 inch cut, \$225.00.

LAWN ROLLERS.

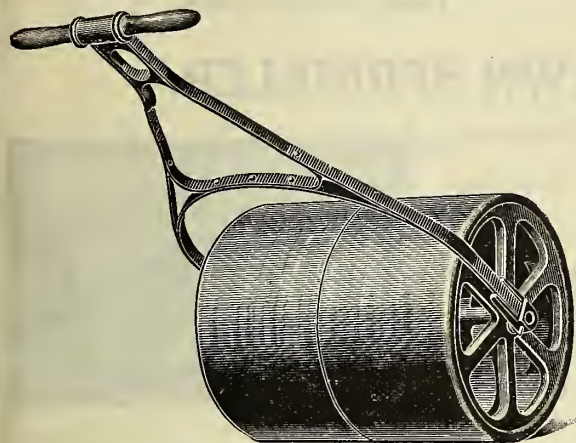
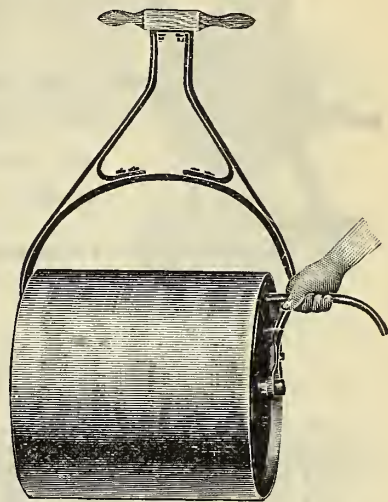
DUNHAM "WATER-WEIGHT" ROLLER.

The Dunham "Water-Weight" Roller is electric welded, making the water section one solid drum. No rivets are used. It cannot leak. The rolling surface is perfectly smooth, and cannot cut up the lawn. They are roller bearing and easy to operate.

Made in one or two sections.

No.	Diameter Inches.	Length Inches.	Sections.	Weight Empty.	Filled with Water.	Price.
WB 5	18	24	1	80 lbs.	310 lbs.	\$10.50
WB 7	24	24	1	115 "	500 "	13.50
WB 11	18	24	2	100 "	330 "	14.50

NOTE.—For lawns varying from 25 x 40 feet to 50 x 200 feet we recommend WB 5 or WB 7, as listed above. They are the standard sizes.



IRON GARDEN AND LAWN ROLLERS.

Outer edges beveled. Steel axles perfectly fitted in machined bearings assure perfect alignment and ease in using.

Iron Handle with Counterweight. The only lawn roller made with a handle that is absolutely rigid and that will remain so.

No. 1 and No. 2 do not have handle counterweight.

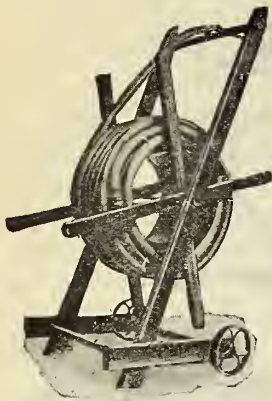
No.	Sections Each.	Inches Long.	Inches Diam.	Weight.	Price.
2	2	16	20	200 lbs.	\$ 9.00
4	2	20	20	250 "	10.50
7	2	24	20	300 "	13.00
9	2	20	24	400 "	16.50

THE FAIRFIELD LAWN SWING.

This swing easily takes precedence over all others in the market. Made of clear mountain spruce. Mechanical perfection, durability and ease of operation are combined in its construction.

Favorite	\$4.00
Fairfield No. 2	4.50
" No. 5	5.50
" No. 7	7.00





HOSE REELS.

Made from hard wood or with steel frame. Strong, well bolted together, and durable.

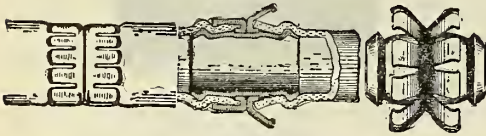
Price from 85c. to \$1.50.



GARDEN AND LAWN HOSE.

High Grade Rubber and Cotton Hose.

PERFECT HOSE MENDER.



A one-piece article of solid brass, made of very best quality of material, with tube and clamps stamped out in one piece, making a continuous tube. All that is needed is a hammer to bend down the clamps on the hose to make a perfect mend. The mend is neat, smooth, durable and absolutely water-tight.

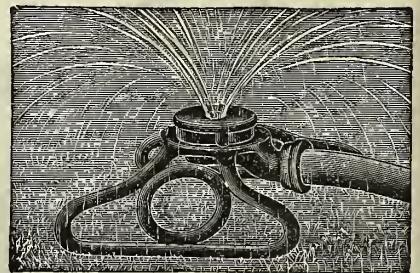
Made for both $\frac{1}{2}$ -inch and $\frac{3}{4}$ -inch hose.

Price, 10 cents each.

THE "ELGIN" LAWN SPRINKLER.

This sprinkler, with ordinary pressure, distributes water over a diameter of about twenty-five feet with no back pressure on hose. It is also furnished with an attachment to throw all the water to one side, so that the sprinkler can be put close to walk or house.

Price, 50c. Complete with attachment, 60c.



FOUNTAIN LAWN SPRINKLER.



Made of brass. Easily moved over the lawn without turning off the water.

Price, 50 cents.

WATER SPRINKLER.

1 qt. painted tin, \$	.20
2 " " "	.25
4 " " "	.35
6 " " "	.40
8 " " "	.50
10 " " "	.60
4 " galv. iron,	.45
6 " " "	.50
8 " " "	.60
10 " " "	.70
12 " " "	.75
16 " " "	.90
20 " " "	1.65



All our sprinklers are made with movable heads, which unscrew with an eighth turn. The screw is of zinc and will not rust.

PARLOR SPRINKLERS (with long nose).

1 quart, painted tin..... 45c.

2 quart, painted tin..... 50c.

3 quart, painted tin..... 60c

TYRIAN PLANT SPRINKLERS.

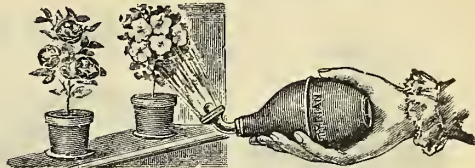
STRAIGHT NECK.

½ pint size	\$.65
¾ " " .....	.75
1 " " .....	.90

BENT NECK.

½ pint size	\$.75
¾ " " .....	.85
1 " "	1.00

If sent by mail, 5 cents extra.



GRASS HOOKS.

All sizes. All kinds.

Price, 25 cents to 50 cents.

FLORAL TOOLS.

IN SETS.

From 10 cents to \$1.00 per set.



GARDEN REELS.

Price, \$1.00.

GARDEN LINES.

Price, 100 feet long, 50 cents.

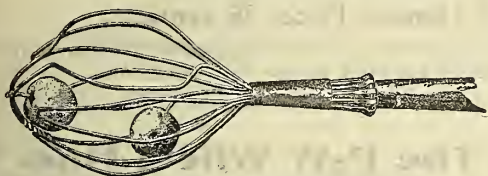
Cast Steel Garden Trowels.



Prices.

6-inch Primrose.....	10 cents
6-inch extra solid steel blade and shank	40 cents
7-inch extra solid steel blade and shank	45 cents

Wire Fruit Picker.

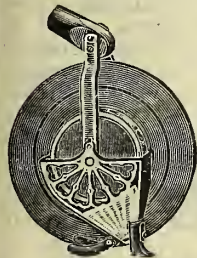


Price, 25 cents.

Boston Hose Nozzle.



Price, 45 cents.



The Eureka Seed Drill.

For Kitchen Garden and Hot-Bed.

Will sow and cover beets, cabbages, carrots, celery, lettuce, onions, radishes, spinach, turnips, etc.

Price, \$1.25.

PICKS AND MATTOCKS.

Axe Mattock.



Pick.



Pick Mattock.



Price, 65 cents.

"NORCROSS" CULTIVATOR-HOES AND WEEDERS.

"No Garden too Small for a 'Norcross' Tool."



Use on 4-foot Handle as shown in cut.



Use on Handle or Attach to a Wheel Plow.



Attach 5-Prong Style to Wheel Plow.

"Norcross" Cultivator-hoes and Weeders work closer to plants without injuring them than any other garden implement known, leaving the soil level, loose and untrampled. Detachable steel prongs, malleable head. Finish black, silver bronzed shovels. Handles finest grade ash.

5-Prong, 4-Foot Handle, Weight 3 Pounds, Price, 75 cents.

The "Norcross" 5-prong is the only cultivator-hoe having detachable ferrule whereby handle may be detached, and by means of "Norcross" universal connection (10 cents extra) cultivator may be used as a wheel plow attachment.

3-Prong, 4-Foot Handle, Weight 2 Pounds, Price, 50 cents.

The "Norcross" 3-prong is a modification of the 5-prong, in size, weight and price, being especially suited to women who tend garden and all who prefer a light weight tool and for cultivating between extremely narrow rows.

"Midget", 9-inch Handle, Weight 12 Ounces, Price, 25 cents.

The "Norcross" Midget is unequalled for close cultivation in flowers, low shrubbery and garden. Unlike cheaply made one-piece malleable weeders, it is made and finished the same as our Cultivator-hoes.

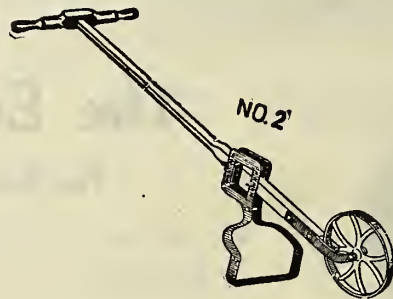
The P-W Hand Weeder.



A light and easy working weeder. Excellent for general weeding purposes, doing the work easier and quicker than by ordinary methods.

Price, 25 cents.

The P-W Wheel Hoe.



Handle is adjustable to any height. Having only one wheel it runs between the rows without bruising the tops, and having no framework it will not tear the growing plants on either side.

Price, \$2.50.



Keystone Post Auger.

Will do three times the work of any other auger on the market.

Price, \$1.50.

FARM AND GARDEN TOOLS.

Complete Assortment of all Tools Constantly on Hand.



Field Hoe.



Manure Fork.



4 Tined Hay Fork.



Toothed Hoe.



Spading Fork.



3 Tined Hay Fork.



Warren Hoe.



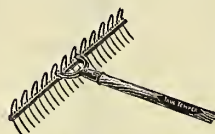
Potato Hook.



Turf Edger.



Steel Garden Rake.
(Bow Shank.)



Wire Lawn Rake.



Scuffle Hoe.



Steel Garden Rake.



D Handle Round Point Shovel.



Solid Steel Scoop.



D Handle Square Point Spade.



Wire Potato Scoop.



D Handle Spade.

Hoes—Garden, Field, Meadow, Scuffle, Ladies', Boys', Nurserymen's, Onion, Warren, Boothby, Humphrey, Stable, Street and Mortar.

Forks—Hay, Barley, Manure, Spading, Ensilage, Coke, Fish, Potato and Stone Picking.

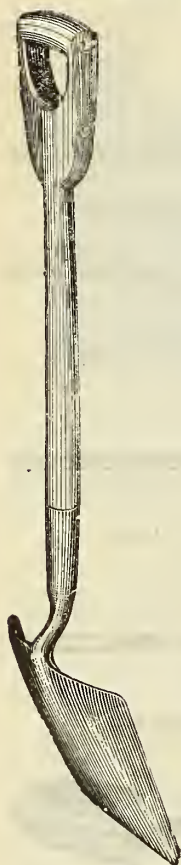
Hooks—Potato, Manure, Clam and Nurserymen's.

Rakes—Garden, Lawn and Gravel, in steel, malleable iron, and wire.

Turf Edgers and Sod Lifters.

Write for quotations on tools of every variety.

STEEL SHOVELS, SPADES AND SCOOPS.



Maynard's Solid
Steel Socket
Shovels and Spades.



Post
Spoon.



Long Handle
Square Point
Shovel.



Long Handle
Round Point
Shovel.



Wooden
and
Steel
Snow
Shovels.

THE HOOPER SNOW SHOVELS.



For Railroad Cross-
ings and Platforms, Ice
Ponds, Mill Yards, Flat
Roofs, Concrete Walks
and General Shoveling.

PRICE.

2 feet,	\$3.25
2 " 6 inches,	3.75
2 " 9 "	4.00

Pine and Cucumber Wood Pumps.



Pump Curbs, Pump Fixtures,
Tubing,
Chain and Rubber Buckets.

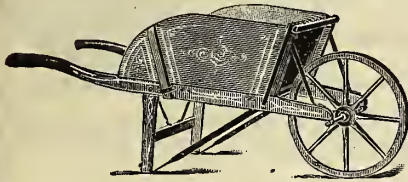
Finished Ox Bows.

Made from fine second-growth
hickory, shaved by hand, and
smoothly finished.

PRICE.

Per pair, 21-4 in.,	\$1.50
" " 2 in.,	1.35
" " 13-4 in.,	1.10
" " 11-2 in.,	1.00

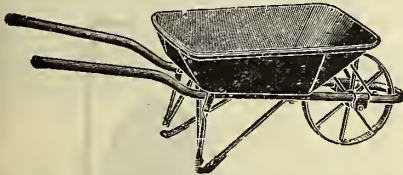
WHEELBARROWS.



GARDEN BARROW.

No. 3. K. & W. Garden Barrow	\$3.25
No. 4. " " "	3.50
No. 5. " " "	3.75
No. 3. Custom Made. Strongly ironed and heavily braced.....	3.75
No. 4. " " " " " " " "	4.00
No. 5. " " " " " " " "	4.25
Lawn or Stable Barrow. Extra size (box being 32 in. x 25 in. x 18 in.).....	9.00

CANAL BARROWS.



STEEL TUBULAR CANAL BARROW.

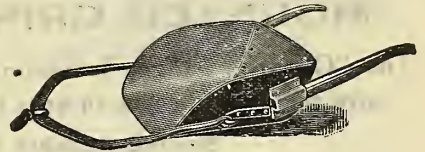
Wood Tray, \$2.00 and \$2.25	
Steel Tray,	4.50
All Steel,	6.50



CANAL BARROW.

STEEL ROAD SCRAPERS.

No. 0. Price.....	\$8.50
No. 1. "	6.00
No. 2. "	5.75
No. 3. "	5.50



STEEL HEAD FOR DRAG.

This illustration shows a simple device whereby a drag can be readily made by using STRAIGHT plank.

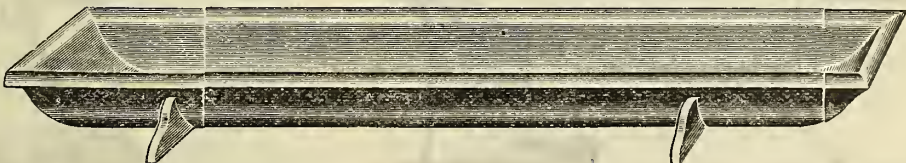
We also furnish the drag complete as shown below.

Price, \$3.00

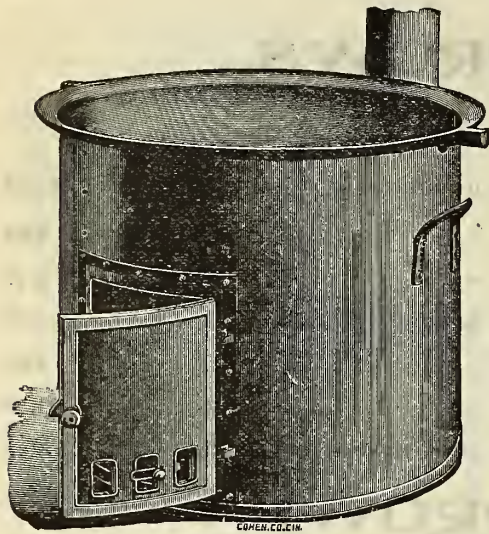
Price, \$7.00



CAST IRON HOG TROUGHS.



Prices from \$1.25 to \$4.00.



Farmers' Boiler and Feed Cooker.

(WOOD BURNING.)

Heavy cold rolled steel furnace; extra large feed door; malleable iron handles, firmly riveted on; strong, durable, economical and cheapest feed cooker on the market.

The kettles are of smooth, heavy cast iron, and will last a lifetime. The furnace jacket is of heavy cold rolled steel, and very durable. Door, frame and flue collar cast iron.

Is designed to set on the ground, or on brick foundation and is especially adapted for cooking feed, rendering lard, making soap, scalding hogs and poultry, and all work of this nature. Cast-iron flues are constructed inside, retaining the heat and greatly economizing fuel.

Capacity.	Diameter of Furnace.	Capacity.	Diameter of Furnace.
15 gals.	20 $\frac{1}{4}$ inches	53 gals.	32 inches
22 gals.	23 inches	65 gals.	34 inches
30 gals.	26 inches	75 gals.	36 inches
33 gals.	28 $\frac{1}{2}$ inches	90 gals.	38 $\frac{1}{2}$ inches
40 gals.	29 $\frac{1}{2}$ inches		
48 gals.	31 $\frac{1}{2}$ inches		

Price on application.

MOUNTED GRINDSTONES.

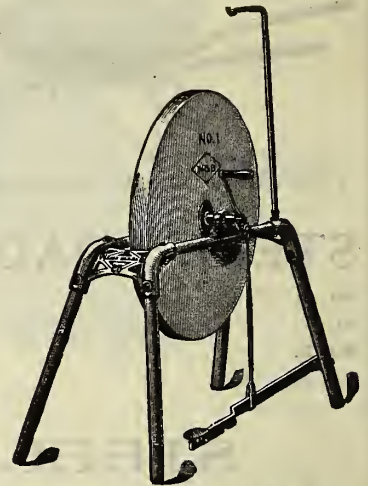
The "Goezy", Tango, Sampson and Tubular Frame,
WITH TREADLE AND CRANK TO WORK EITHER BY HAND OR FOOT.

Strong, Durable Frames,

—ALSO—

Unmounted Stones, all sizes and weights, and a full line of Fixtures.

Write for prices.



TUBULAR FRAME STONE.

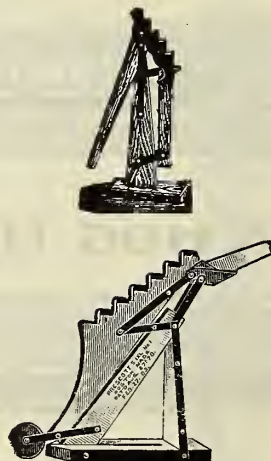
BARREL HEADER.

This is the most simple labor-saving machine ever invented for heading up barrels, and is used extensively for heading up apples, fish and other merchandise.



Price (1-inch screw), \$1.25.

CARRIAGE JACKS.



Price, \$1.25 to \$4.00.

STORE AND BAG TRUCKS.

MADE OF HARD WOOD AND WELL IRONED.

RUBBER TIRED WHEELS
for hotel use.



Price, \$2.25 to \$10.00.



Corner Manger.



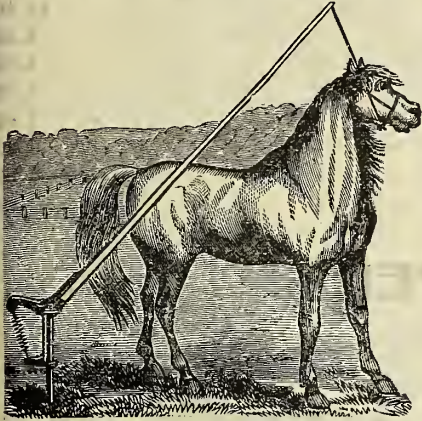
Feed Racks.



IRON CORNER FEED RACKS AND MANGERS.

WRITE FOR PRICES.

ANIMAL TETHER.



Price, \$3.00.

GALVANIZED IRON BUSHEL BASKETS.

These baskets are made of galvanized iron, and are furnished with malleable iron handles. Strong, durable and useful.



Price, 65c.

FEED BAGS.

MADE FROM
HEAVY CANVAS.

PLAIN
or with
BRIDLE.

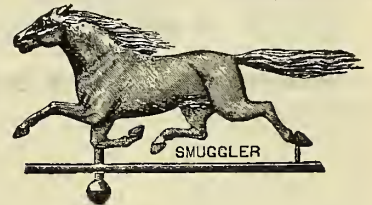
Price,
35c. to 75c.



WEATHER VANES.

All our vanes are made of copper and gilded with 23-karat gold-leaf that will remain bright for years. The vanes include iron spire with steel spindle points of the compass and gilded balls and letters.

Descriptive Circular and Price List on Application.



WELL BUCKETS.

Made from oak, heavily
hooped.

—ALSO—

Light and heavy weight
Buckets made from
galvanized iron.



HAY KNIFE.



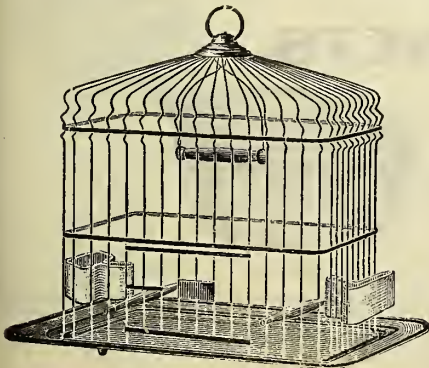
Price, 75c.

BULL RINGS.

Copper and Steel.



Price, 15c. to 30c.



BIRD CAGES, SEEDS AND SUPPLIES.

Brass and Japan Bird Cages,

—ALSO—

Parrot and Squirrel Cages.

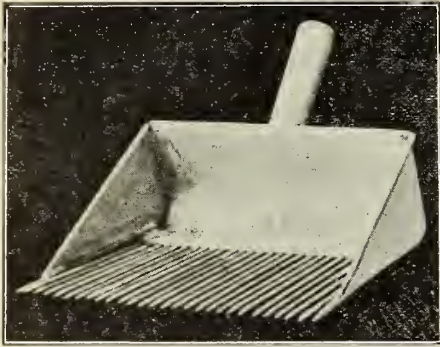
CANARY SEED, RAPE, MILLET, HEMP, RICE, SUNFLOWER AND CUTTLE FISH.

Prepared Mixed Canary Seed.

GRAVEL, SONG RESTORER, PARROT FOOD AND MOCKINGBIRD FOOD.

Cage Springs, Cups, Hooks, Ladder Chains, and Wire Guard Cloth.

BLUEBERRY PICKER.



This picker is made from the best quality of heavy tin, and fitted with points made from highest tempered steel spring wire. The points are thoroughly soldered, making a very substantial and convenient picker.

Made in the following sizes:

Price, 16 point,	-	-	-	-	-	\$1.10
" 18 "	-	-	-	-	-	1.25
" 20 "	-	-	-	-	-	1.35
" 24 "	-	-	-	-	-	1.65
" 26 "	-	-	-	-	-	1.85
" 28 "	-	-	-	-	-	2.00
" 30 "	-	-	-	-	-	2.15
" 32 "	-	-	-	-	-	2.25

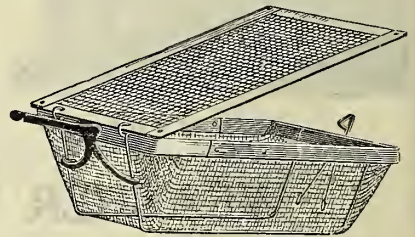
CORN POPPERS.

Firm and well braced popper with detachable handle, and with wire guards to protect bottom of popper from wear.

Price.

1 quart,	12c.	2 quart,	20c.
1 1-2 quart,	15c.	4 quart,	35c.

8 quart (factory size), \$1.75.



SHERWOOD POPPER (2 quart size only). Made with sliding cover. One of the heaviest and best poppers made. **Price, 50c.**

"K. & W."

WHITE RICE POPPING CORN.

Finest quality, tender and crisp. Pops out snow white. Sold both shelled, and on the ear. Special price to users of large quantities.

WOODEN MEASURES.

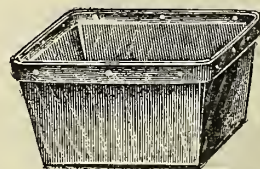
In sets of 1, 2, 4, 8 and 16 quart sizes.

Price per set, \$1.65.

BERRY BASKETS.



Oblong Pint.



Quart.

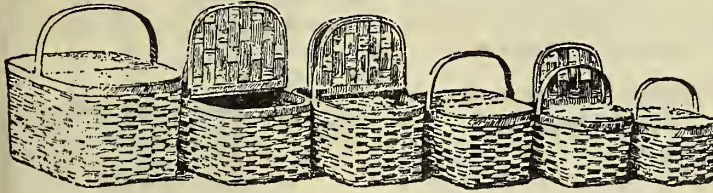
Our berry baskets are made of best quality clear wood and put up in good strong crates. Packed 1,000 in a crate.

Write for prices.

BASKETS

OF EVERY SIZE AND STYLE FOR
FACTORY, MILL, STORE, FARM AND OFFICE.

Corn Packers' Baskets a Specialty. Write for Quotations.



Ash-Covered Lunch Baskets.

One or Two Bail, Ash-Covered Lunch Baskets.

No. 0.....	\$1.25	No. 4.....	\$.55
No. 1.....	1.00	No. 5.....	.50
No. 2.....	.70	No. 6.....	.40
No. 3.....	.60	No. 7.....	.35



Hole-Handled Market Baskets.



Bail-Handled Market Baskets.

Solid Oak Market Baskets, with Bail, Hole or Block Handle Strapped.

No. 0.....	\$.60	No. 2.....	\$.35
No. 1.....	.50	No. 3.....	.30



Oak Splint Basket.

No. 1. 6 bush., solid oak, nailed rim..	\$3.50
No. 1. 5 " " " " " " " "	3.25
No. 1. 4 " " " " " " " "	3.00
No. 1. 3 " " " " " " " "	2.50
No. 1. 2 " " " " " " " "	1.00
No. 1. 1 " " " " " " " "	.65
No. 0. 1 " " " " " " " "	.50



1-2 bush. Basket.



1-4 bush. Basket.

½ bush., solid oak, nailed rim, stiff bail	\$.35
¼ " " " " " " " "	.30
½ " " " " " " drop "	.35
¼ " " " " " " " "	.30



THE HOLDEN ASH STAVE BASKETS.

One of the smoothest, strongest and best baskets for farmers and grocers. Made in every size from ¼ bushel to 4 bushels.

OVAL WILLOW CLOTHES BASKETS.

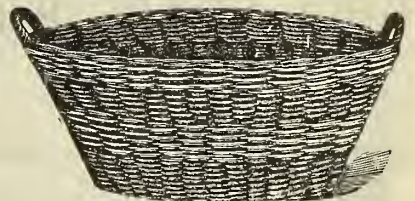
Small	\$.75
Medium .....	.85
Large	1.00



Barrel Baskets.
35 cents.

OBLONG ASH CLOTHES BASKETS.

Small	\$.75
Medium	1.00
Large	1.25



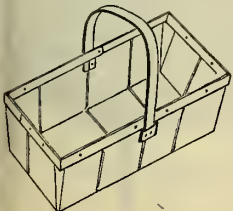
Oval Willow Clothes Baskets.

VERBENA BASKETS.

With wood or wire handle. 10 inches long; 5 inches wide; 3 inches deep. \$2.25 per hundred; \$18.00 per thousand.

Wood handle. 12 inches long; 7 inches wide; 4 inches deep. \$2.75 per hundred; \$24.50 per thousand.

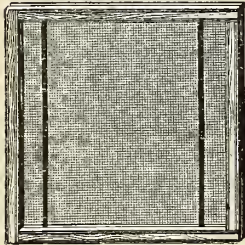
Special prices quoted for large quantities.



HIGH GRADE SCREEN DOORS AND WINDOW SCREENS.

OUR SCREEN DOORS are square mortised and tenoned joints throughout, making the strongest and best construction possible.

The wire cloth is placed on the screen door by special machinery, which stretches the cloth drumhead tight. The wire cloth is pressed into a groove in the wood and covered with a flush beaded moulding mitered at corners, which prevents the cloth from becoming loose and baggy.

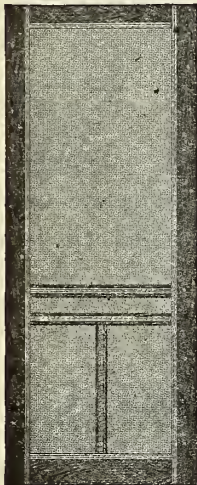
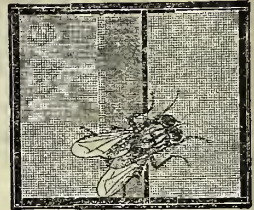


Adjustable Window Screens. The "Hummer"

guaranteed to have perfect adjustment. Wire cloth is securely fastened to frame, and covered with moulding. Material used is best hard wood, finished in oil, both sides alike.

The "Sherwood" Screen

is an all-metal frame made of pressed steel. The wire cloth is drawn tightly and locked securely in the frame. Operates easily in all kinds of weather.



Continental Sanitary Window Ventilators

Fresh Air
Without
Drafts, Dust,
Rain or Snow



For Bed Rooms,
Living Rooms,
Bath Rooms,
School Rooms,
Hospitals,
Offices, Etc.

A specially treated cotton fabric of fine mesh keeps out all drafts, dust, rain and snow, but permits a constant circulation of fresh air. The frame is of hard wood, adjustable to fit any ordinary window opening.

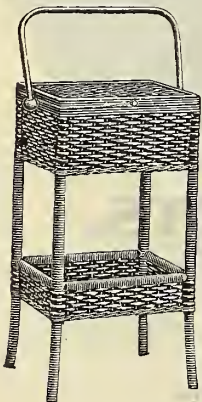
No. 93. 9 inches high, adjustable
23 to 37 inches wide.

No. 183. 18 inches high, adjustable
23 to 37 inches wide.

Write for quotations.



WORK STANDS, WOOD BASKETS and OFFICE BASKETS.



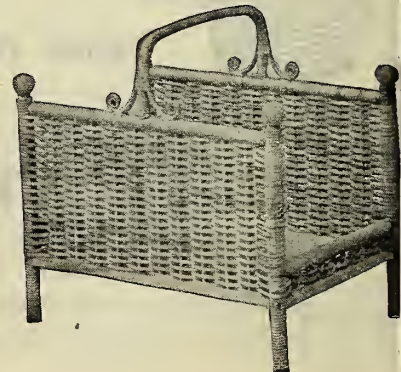
MADE FROM

RATTAN AND WILLOW,

IN MANY STYLES AND SIZES,

BOTH PLAIN AND IN COLORS.

Prices on application.





"K. & W." Sanitary Sweeping Compound.

Can be used on carpets, rugs, linoleums, matings, tile and wood floors; is economical, non-inflammable, and *absorbs* the dust, thereby preventing the scattering of disease germs.

This powder is mixed by machinery only, and is composed of a special wood pulp combined with absorber and silica, which gives it its cleansing property. There is *no sand* used, the grit which is noticeable being silica. The oil of cedar, which is used as a disinfectant, is one of the best known to medical science. This powder always runs uniform, will cover a large area, and its use is recommended in every home, public building, store and factory.

PRICE.

1-4 barrel (37 1-2 lbs. net),	\$1.00
1-2 barrel (75 lbs. net),	1.50
Barrel (150 lbs. net),	3.00

Special quotations on large quantities.

O-CEDAR POLISH AND DUSTLESS MOP.

The one **perfect polish** for pianos, automobiles, furniture, hardwood floors, and all waxed, varnished and polished surfaces, as it **will not gum**, and aside from its high lustre, it is a dust allayer, a labor saver, and clean and sanitary in every particular.

Price O-Cedar,	4 oz. bottle,	\$.25
	12 " "	.50
	Quart can,	1.00
	Half gallon can,	1.50
	One " "	2.50

Price O-Cedar Mops, No. 1 (round), \$1.25; No. 2 (round), 75c.

No. 3 (triangular), \$1.25; No. 4 (triangular), 75c.



THE REGINA PNEUMATIC CLEANER.

Weighs but 25 pounds and is easily carried in one hand. Occupies small space when not in use and does the same work as other vacuum cleaners costing several times as much. The hose is of a superior grade of rubber and is nine feet long. It has a large duplex pump, and is so constructed that a strong suction is created by both the forward and backward stroke of the lever.

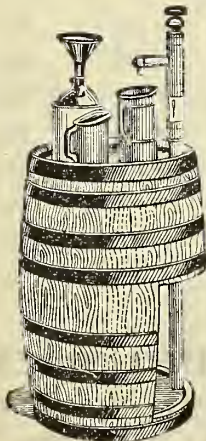
Price, \$18.00.

20TH CENTURY BARREL PUMP.

FOR VINEGAR.

Made from chemicalized wood and is strictly non-corrodible; does away with the slow, leaky faucet; will pump the liquid at the slightest stroke of the piston.

Price, \$1.00.

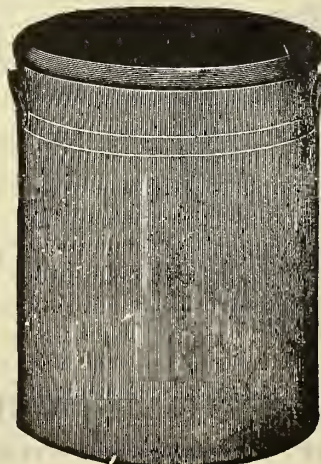


STONE WARE.

ALL SIZES OF

Stone Pork Barrels, Butter Pots, Bean Pots,
Preserve Jars, Jugs and Churns.

Write for Price List.



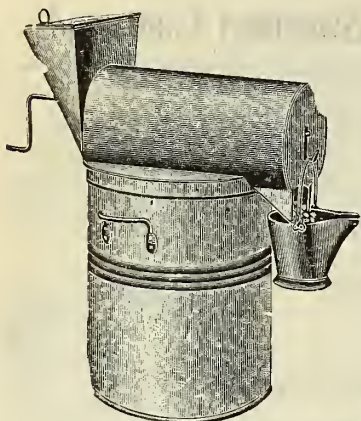
Pork Barrel.



Butter Pot.



Bean Pot.



THE NATIONAL.

THE NATIONAL
ROTARY ASH SIFTER.

In galvanized iron case. No dust. Works easily, quickly and well.
Price, to fit 18-in. iron can, or flour barrel, \$2.50

THE "LOWELL" COAL SIFTER.

This is an **all wire** sifter, sifting the ashes through the sides as well as the bottom.
Price, 75c.

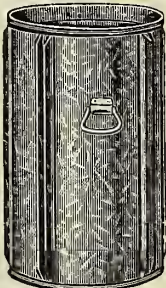
THE FAVORITE COAL SIFTER.

Price, 40c.

GALVANIZED IRON
ASH BARRELS.

Solid heavy barrels. No danger from hot ashes.

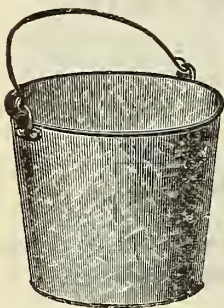
Price, No. 041,	.	.	.	.	\$2.20
" " 5,	.	.	.	.	2.50
" " 190,	.	.	.	.	3.25



No. 190.



No. 5.



GALVANIZED IRON
PAILS.

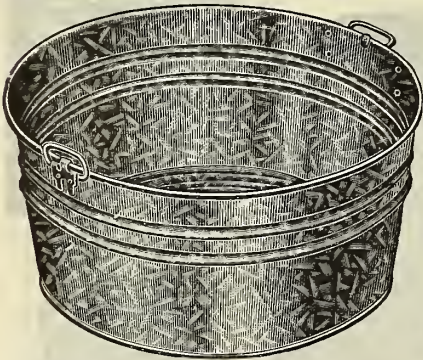
10 quart,	25c.
12 "	30c.
14 "	35c.
16 "	40c.
10 " extra heavy,	45c.
12 " " "	50c.
14 " " "	55c.
16 " " "	60c.



GARBAGE PAILS.

Made from
Galvanized Iron.

No. 000,	\$.55
" 02,	.85
" 03,	1.00
" 04,	1.15
" 40,	1.60
" 50,	1.85
" 310,	2.60



Galvanized Iron
Tubs.

With wringer attachment.

No. 11,	80c.
" 22,	90c.
" 33,	\$1.00
A. Keelers,	45c.
B. " "	50c.
O. " "	55c.

Galvanized Iron Coal Hods.

No. 515	35c.
" 516	40c.
" 517	45c.
" 518	50c.
" 156, heavy,	55c.
" 166 "	60c.
" 176 "	65c.
" 186 "	70c.



BROOMS AND BRUSHES,

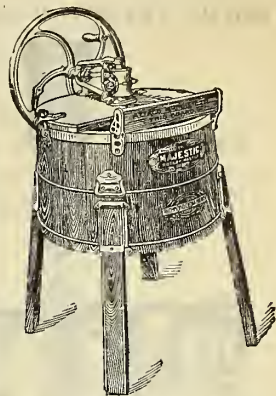
AND A LARGE VARIETY OF WOODEN WARE OF ALL KINDS.

ALL ORDERS PROMPTLY EXECUTED.

MAJESTIC ROTARY WASHER.

The Rotary is simple, strong, easy running and noiseless, the rotary motion being continuous, and the fly wheel heavy. Very little power is required to operate the machine. It is constructed of the **best white cedar**, and is strong and finely made.

Price, \$7.00.



CLOTHES WRINGERS.

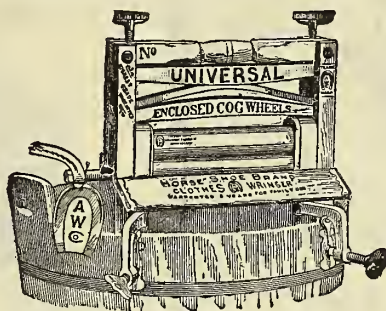
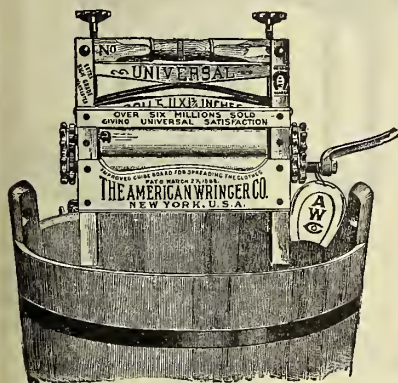
TUB WRINGERS.

Universal,

Household,

Eureka,

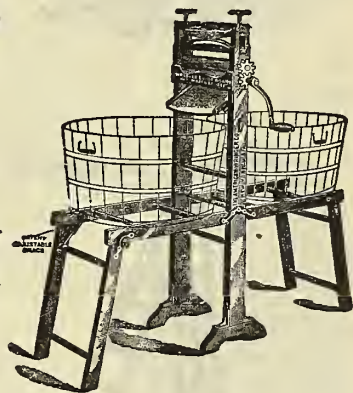
Daisy.



BENCH WRINGERS.

Universal,

Household.



UNIVERSAL.

BEST KNOWN AND LARGEST SELLER.

Made either with regular bearings, ball bearings, or with enclosed gears.

Write for prices.

WHITE'S Patent Mop Wringers.

Will quickly wring a mop perfectly dry,
without touching mop with hands.

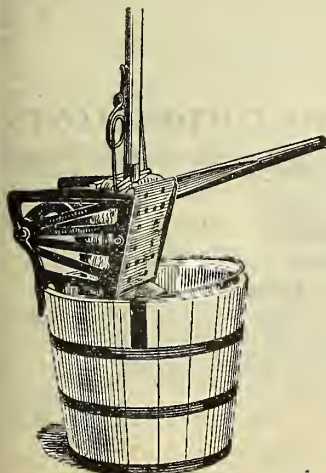
The wringer may be instantly attached to the pail and quickly removed.

Always place the wringer on the opposite side of pail from the bail.

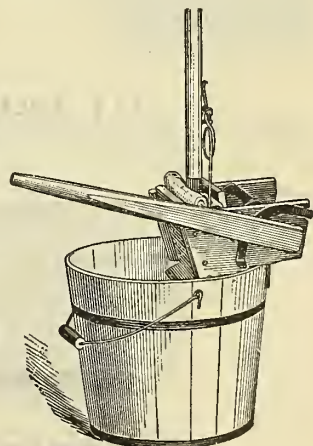
Use mop made of any material desired. A short, thick mop is generally best liked, and is the best wrung by the wringer.

Price, Family Size, \$1.50

" Hotel " 2.00



Hotel Size.



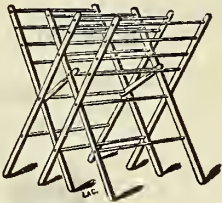
Family Size.

EMPIRE FOLDING WALL DRYERS.

Price,
60c.



FOLDING CLOTHES HORSES.



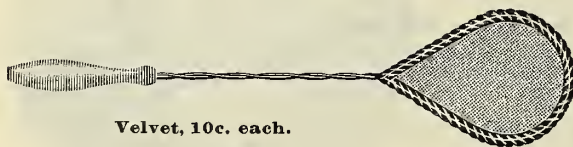
No. 3.....	.85
No. 3½.....	.90
No. 4.....	1.00

STEP LADDERS.



Paris, per foot.....	30c.
Hub, per foot.....	30c.
Challenge, per foot.....	38c.

FLY KILLERS.



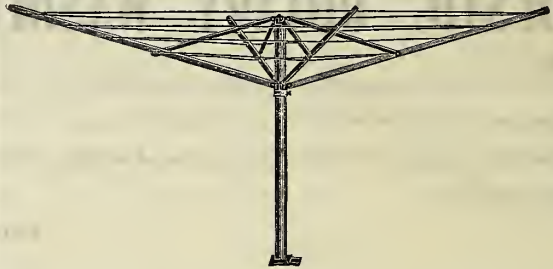
Velvet, 10c. each.



Wood and Wire Handle, 10c. each.

ADVANCE CLOTHES DRYERS.

The Best Clothes Dryers in Use.



No. 1.
120 ft. line,
\$3.00

No. 2.
160 ft. line,
\$3.25

BALCONY DRYERS, - - - \$7.25

DRY MOPS.



Price, 40c.

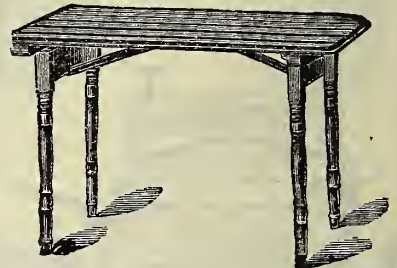
ROLLING PINS.



Price, 15c.

FOLDING TABLES.

Yard measure stamped on top of each.



No. 000.	36 x 19 inch.....	\$1.10
No. 00.	36 x 19 inch, with casters.	1.35
No. 0.	36 x 20 inch, with casters.	2.00
No. 1.	36 x 22 inch, with casters.	2.25

New England Folding Card Tables.

Covered with green felt, and finished with metal corners.

No. 21.	24 x 24 inch.....	\$2.25
No. 23.	27 x 27 inch.....	2.75
No. 25.	30 x 30 inch.....	3.25

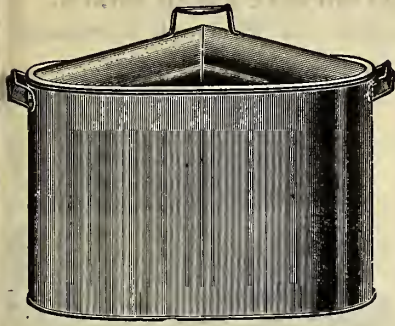
"IDEAL BRAND" COTTON GLOVES.



Full size; well made.
Good gloves for all
kinds of work, at a
low price.

Price.

No. 3K.....	10c. per pair
No. 2K.....	12c. " "
No. 31K.....	15c. " "
Jersey.....	10c. " "
Leather Palm, No. 20.....	25c. " "
Large Gauntlet.....	15c. " "
Boys'.....	12c. " "
Mittens.....	20c. " "
" Leather Palm.....	25c. " "



WASH BOILERS.

8 in. X tin bottom,	\$.90	8 in. Rome copper bottom,	\$1.50
9 in. X " "	1.00	9 in. Rome " "	1.75
8 in. X copper "	1.25	8 in. Rome all copper,	3.00
9 in. X " "	1.40	9 in. Rome " "	3.25

TEA KETTLES.

OIL CANS.

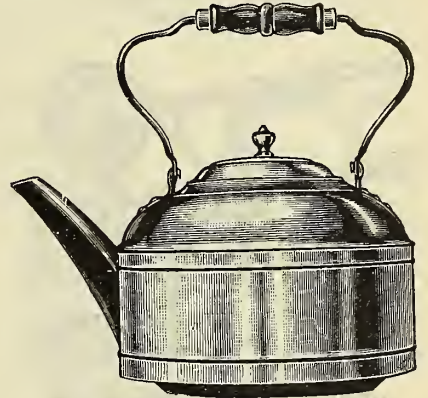


5 Gal. Columbia Oil Can.
Price, 90c.



1 Gal. Polo Oil Can.
Price, 25c.

NICKLE
COPPER.
PRICE,
\$1.25.



LARGE ASSORTMENT OF METAL AND GLASS OIL CANS,

holding from one to ten gallons each.



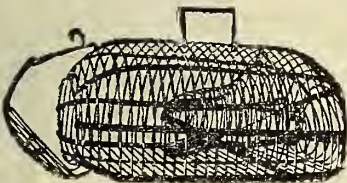
"K. & W." Oil Tanks.

For use where a considerable quantity of oil is kept. These tanks are fitted with a pump, and are safe, convenient and durable.

Price, 60-gallon tank,
" 110-gallon tank,

\$5.00.
9.00.

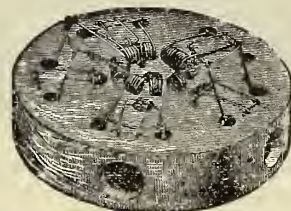
WIRE RAT AND MOUSE TRAPS.



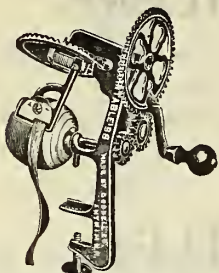
THE MOST EFFECTIVE WIRE TRAP EVER PRODUCED.
PRICE.

Glant, 75c.; Surprise, 40c.; Clipper, 25c.

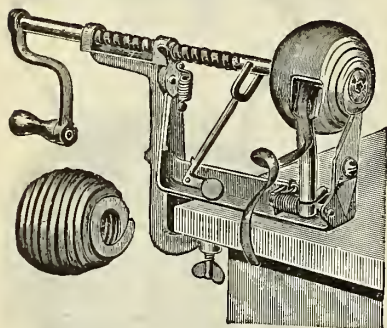
Round Tin and Wood Mouse Trap.



Price, 10 cents.

APPLE PARERS.

NO. '98. TURN TABLE.
Price, 60 cents.

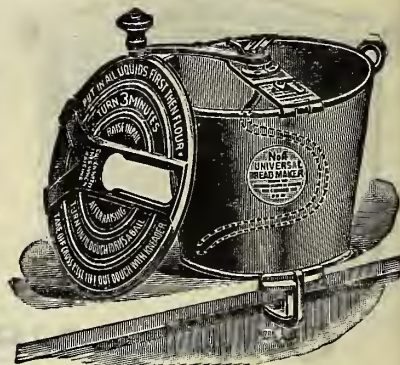


**GENUINE WHITE MOUNTAIN
PARER, CORER AND SLICER.**
Price, 50 cents.

THE UNIVERSAL THREE-MINUTE BREAD MAKER.

Bread Maker, Mixer, Kneader and Raiser all Combined.

Made of heavy tin and sheetsteel. All parts tinned. No housekeeper who has once used it will ever be content to go back to the old, laborious, disagreeable way of making bread by hand. Very simple in construction. A child can operate it. As easily cleaned as a tin pail.

**PRICE.**

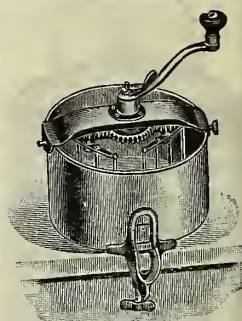
No. 2,	.	.	\$1.35
No. 4,	.	.	2.00
No. 8,	.	.	2.50

THE UNIVERSAL CAKE MAKER.

Especially Designed for Mixing all Kinds of Cake Batter, and for Whipping Cream and Beating Eggs.

Invaluable for making, in considerable quantities, mayonnaise and other salad dressing, for mixing all batter for fritters, gems and puddings, and for sauces that require beating.

Price, \$1.75.

**THE UNIVERSAL FOOD CHOPPER.**

All Parts Tinned and Interchangeable.

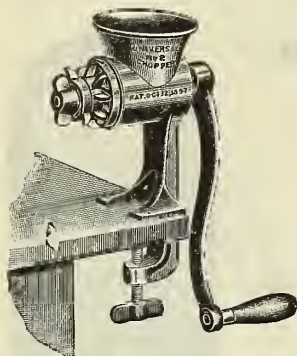
Chops rapidly and without mashing, and in pieces as fine or coarse as wanted, all kinds of meat, fish, fruits, eggs, bread and vegetables.

No. 0, \$1.00; No. 1, \$1.25; No. 2, \$1.50; No. 3, \$2.00.

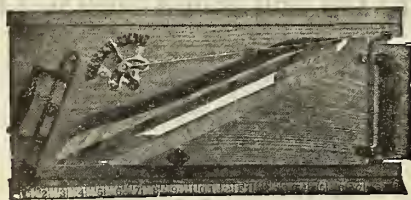
STUFFING ATTACHMENT.

Made of one piece of seamless brass tubing, spun in to the shape required, heavily nickel plated and finely finished. A thread on the end of the barrel of the machine fits in the end of the stuffing attachment.

Price, 30 cents.



No. 2. Medium Family Size.

**COMBINATION SLICER.**

For slicing bread, dried beef, pressed meats, cabbage, pineapple, etc.

Instantly changed from a thick slice to the thinnest.

Price, \$3.25.

ROUND TIN DINNER PAILS.

Made from good quality polished tin, complete with pie tray and cup, with seamless outside cover.

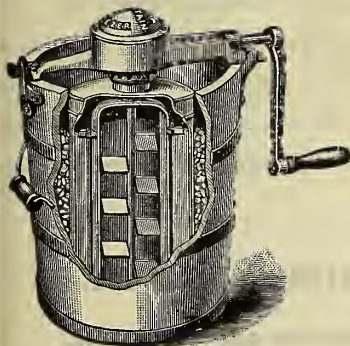
Price, 50 cents.



—ICE CREAM FREEZERS.—

“WHITE MOUNTAIN.”

Perfected by the introduction of an important feature of a **double self-adjusting wood scraping bar** attached to the duplex dasher. By means of this device the **actual time** of freezing cream has been very materially reduced.



The cut shows the construction and position of the mechanism of the White Mountain Freezer. The can moves from right to left, the outside beater moves from left to right, scrapes with its wooden bars the frozen cream from the can and throws it toward the center, where it is met by the floats of the inside beater moving in an opposite direction and returned to the inside surface of the can to be re-frozen. The triple motion thus induced keeps the cream constantly moving and ensures every particle being smoothly and evenly frozen.

PRICES.

Junior,	\$1.25	4 quart,	\$2.75	12 quart,	\$ 7.00
1 quart,	1.60	6 “	3.50	15 “	8.25
2 “	2.00	8 “	4.50	20 “	10.50
3 “	2.40	10 “	5.50	25 “	13.50

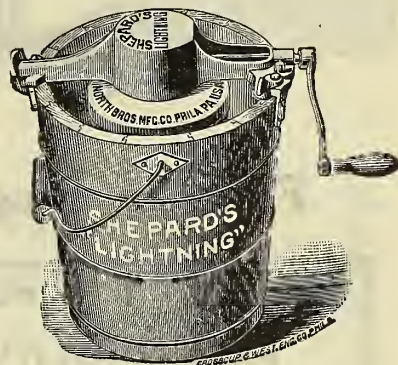
“LIGHTNING.”

EASY RUNNING. QUICK FREEZING. CONVENIENT AND PRACTICAL.

Drawn Steel-Bottom Cans, which will not leak or break. The body of can is made of heavy tin plate of finest quality. Tubs with electric welded wire hoops, which are guaranteed not to fall off or break.

PRICES.

1 quart,	\$1.35	4 quart,	\$2.50	10 quart,	\$5.50
2 “	1.75	6 “	3.25	12 “	6.50
3 “	2.00	8 “	4.00	14 “	7.50



“ALASKA.”

The only freezer having the Perpetual Motion Aerating Spoon Dasher, with its spoon-shaped floats, open in the center like mixing spoons, which aerates, stirs and beats the mixture rapidly and thoroughly.

The cut also shows the new device attached to the under part of the gear-frame or cross-bar, which effectually protects the gearing and can cover from salt and ice.

PRICES.

1 quart,	\$1.60	4 quart,	\$2.50	10 quart,	\$5.25
2 “	1.85	6 “	3.25	12 “	6.75
3 “	2.10	8 “	4.25	15 “	8.25



FREEZER CLAMP OR HOLDER.

A perfect device for holding the freezer firm and steady. Easily adjusted to the tub by means of thumb nuts. Price, 2 to 10 quarts, 35 cents; 12 to 25 quarts, 55 cents.



THE "PILGRIM"

Refrigerators and Ice Chests.

Thoroughly constructed from hard wood, and beautifully finished. Cleanable and perfectly sanitary. The economy of ice is a very important consideration, and the consumption of ice will be much smaller in our refrigerators than in many others, and at the same time insure a low and even temperature, and perfect circulation of cold, dry air.

GROCERS' REFRIGERATORS A SPECIALTY.

Send for Illustrated Catalog and Price List.

Fruit Jar Rings.

ONE WHITE DOZEN

EXTRA QUALITY

"K. & W."

LIGHTNING

JAR RINGS

KENDALL & WHITNEY,

PORTLAND, ME.

"K. & W." White Lightning, Federal Gray Lightning, Combination, Red, Wide Mouth and Mason. Manufactured from highest grade rubber, and attractively packed in handsome colored containers.

1 dozen in each package.

24 packages in a carton.

FRUIT JARS.

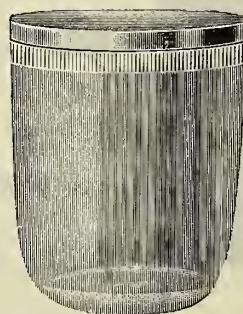
**"GENUINE"
LIGHTNING.**

**1-2 pint, 1 pint, 1 quart
and 2 quart sizes.**



All Genuine "Lightning" Fruit-Jars Bear Trade-Mark "Lightning"

JELLY TUMBLERS.



**BEST
QUALITY
CLEAR
GLASS.**

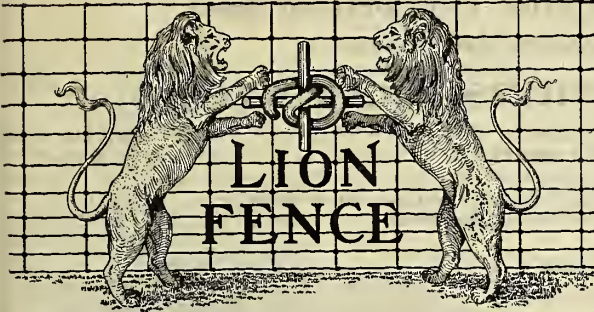
1-3 pint, packed 24 dozen to the barrel.

1-2 " " 20 " " " "

Fences — PAGE-LION — Fences.

MADE BY

The OLDEST and BEST KNOWN FENCE COMPANY in the WORLD.



A Full Line LION-FENCE. All Heights.

Fences for Every Purpose, to Suit Every Condition.
Large, Heavily Galvanized Wires, Made from Open
Hearth Steel.

Straight, Continuous Cross Wires. No Wraps or Welds.

THE BEST FENCE FOR THE MONEY.

Best for Horses.

Best for Cattle.

Best for Sheep and Hogs.

Best for Poultry.

POULTRY

- P 1848-32 18 bars, 48 inches, 32 stays per rod.
Spaced, $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 2 2 2 $2\frac{1}{2}$ $2\frac{1}{2}$ 3 3 $4\frac{1}{2}$ 4 4 $4\frac{1}{2}$ 5 5 inches.
P 2058-32 20 bars, 58 inches, 32 stays per rod.
Spaced, $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 2 2 2 $2\frac{1}{2}$ $2\frac{1}{2}$ 3 3 $4\frac{1}{2}$ 4 4 $4\frac{1}{2}$ 5 5 5 5 inches.

HOG

- O 726-16 7 bars, 26 inches, 16 and 32 stays per rod.
O 726-32 Spaced, 3 3 $3\frac{1}{2}$ $4\frac{1}{2}$ $5\frac{1}{2}$ 6 inches.
O 832-16 8 bars, 32 inches, 16 and 32 stays per rod.
O 832-32 Spaced 3 3 $3\frac{1}{2}$ $4\frac{1}{2}$ $5\frac{1}{2}$ 6 $6\frac{1}{2}$ inches.

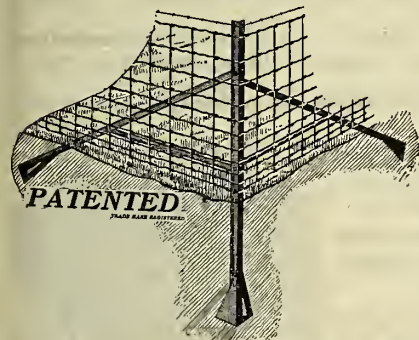
CATTLE

- O 635-14 6 bars, 35 inches, 14 stays per rod.
Spaced, 6 6 7 8 8 inches.
O 844-16 8 bars, 44 inches, 16 stays per rod.
Spaced, 4 5 6 6 7 8 8.
O 952-16 9 bars, 52 inches, 16 stays per rod.
Spaced, 4 5 6 6 7 8 8 8 inches.

CARBO STEEL POSTS.

Adaptable to Every Steel Fence and Style of Steel Netting.

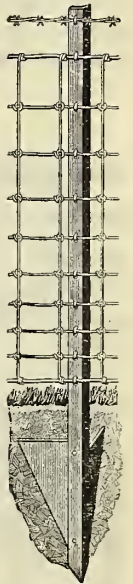
Old-fashioned fire-inviting wooden fences, with their broken and displaced pickets, their tendency to rot, are being discarded. Same with **wooden** fence posts.



Carbo Unit Posts for every purpose, from the standpoints of beauty, dignity and simplicity, genuine economy and service, have wooden and concrete posts completely **disqualified**.

Any make of wire, or design of wire fence, is easily and quickly attached to Carbo Posts by means of ordinary staples. These staples do not show when the fence is completed. Carbo Units are set without any trouble, fuss or delay, and set to stay, straight, taut, resilient. Remember, the Carbo Unit Post System is the modern way, the economical way. Open to the air and sunshine, non-dirt-collecting, sanitary and permanent.

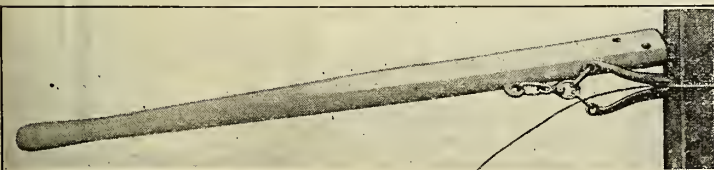
Write for Illustrated Price List.



THE TOWNSEND WIRE STRETCHER.

The Townsend Wire Stretcher is made with a wooden lever or handle three feet in length, to which is attached malleable iron pinchers, into which are riveted corrugated steel grips; warranted not to slip. It is a substantial and very durable implement.

Price, 75 cents.



WE ARE AUTHORIZED AGENTS FOR CYPHERS COMPANY, INCUBATORS, HOVERS AND BROODERS.

Incubators Made in Three Styles—Eight Different Sizes.

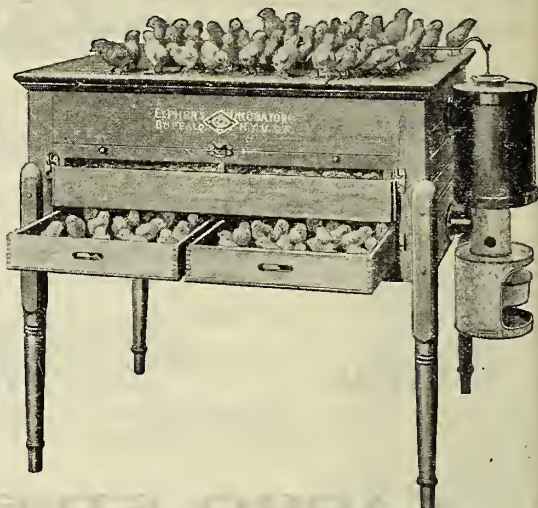
FOR THE SEASON OF 1916.

"STANDARD" CYPHERS INCUBATORS.

The **CYPHERS INCUBATOR** is known as the "business incubator of the age". It has **won its way** in all parts of the world because it gives the **best results**. It is used on more Government Agricultural Experiment Stations, on more large practical poultry plants, on more successful egg farms, and by more prominent poultry fanciers than all other makes combined. It hatches a **larger percentage** of the eggs entrusted to it, and produces **larger, stronger, healthier** and more **vigorous** chicks and ducklings than any other incubator ever built. This is the Cyphers guaranty.

CYPHERS INCUBATORS are built to hatch and to last. With proper care—the same care you would give a valuable piece of household furniture—a Standard Cyphers will last an ordinary lifetime. They are guaranteed by us to last **ten years** without repairs. We make this guarantee because they **have lasted** much longer than this—and are still doing first-class work.

These are machines that for **nineteen years** have been recognized as the "standard hatchers of the world". Tens upon tens of thousands of them have been sold and are in **successful use in every civilized country on the globe**. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work **in all climates, under widely different conditions**, in the hands of all sorts of people. Are built in four popular sizes and at prices as follows: 70 eggs, price complete, \$15.00; 140 eggs, price complete, \$23.00; 244 eggs, price complete, \$34.00; 390 eggs, price complete, \$40.00. Satisfaction **or your money back**.



Standard Cyphers Incubator. Made in four sizes.

Illustration shows No. 3 Incubator, having 390 egg capacity.

COLUMBIA HOT-AIR INCUBATORS.

Are built to meet the widespread demand for large capacity lamp-heated machines that can be sold at **surprisingly low prices** and yet be guaranteed to do high-class work.

The incubator case is of wood **attractively** finished in Flemish green with brass trimmings. Walls are **double** with air space insulation.

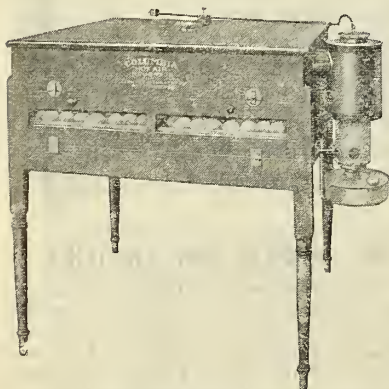
Heater is fume-proof, forced draft, asbestos covered and metal banded. Lamp bowl has **seamless bottom**. Burner is best on market for incubator use and chimney is of metal. Lamp support is readily adjustable.

COLUMBIA INCUBATORS embody the Cyphers Company patented **diffusive principle** of heat mixture and uniform circulation and are **self-ventilating**.

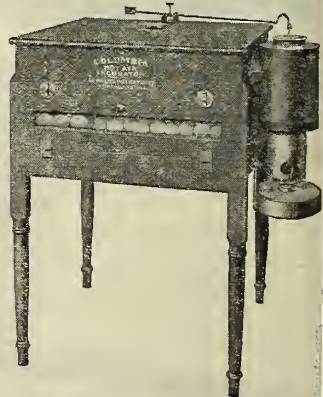
Both sizes of **COLUMBIAS** are equipped with regular Cyphers zinc-and-steel, toggle-joint standard regulating device, the **same exactly** as has been used on Cyphers Incubators for years with world-wide success.

Ample room exists under each egg tray as a **nursery space** for the chicks **first to hatch**.

COLUMBIA INCUBATORS are both self-ventilating and self-regulating, and when operated under normal atmospheric conditions they **do not require supplied moisture**. Are made in two sizes: 140 eggs, price complete, \$16.00; 250 eggs, price complete, \$22.00. **Fully guaranteed.**



Large size Columbia Hot-Air Incubator.
Capacity, 250 eggs.



Small size Columbia Incubator.
Capacity, 140 eggs.

SUPERIOR HOT-WATER INCUBATORS.

These machines are exactly what the name says. They are an exceptional value for the price and the person who wants a hot-water incubator cannot do better than purchase one or more of these machines.

The incubator case is of wood, attractively finished in **golden brown**, with brass trimmings. Walls are **double** with air-space insulation.

The boiler is of heavy-weight **polished copper** and so is the **tubular tank**, in which there is a **forced circulation** of water—a decidedly **valuable feature** that is not secured, as a rule, in hot-water incubators.

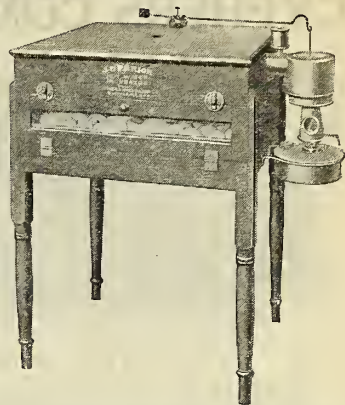
Lamp has **seamless bottom** bowl. Burner is best on market for incubator use and chimney is of metal, constructed **without solder**.

Both sizes of **SUPERIORS** are equipped with the regular Cyphers zinc-and-steel, toggle-joint **standard** regulating device, the **same exactly** as has been used on Cyphers Incubators **for years**.

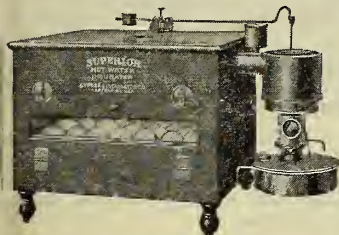
There is ample **nursery space** for the chicks first to hatch, furnishing a comfortable "drying off" and hardening place for the early comers.

SUPERIOR INCUBATORS are both self-regulating and self-ventilating, and when operated under normal atmospheric conditions they **do not require supplied moisture**.

Are built in two sizes: 65 eggs, price complete, \$12.00; 130 eggs, price complete, \$16.00. **Fully guaranteed.**



LARGE SIZE SUPERIOR INCUBATOR
Capacity, 130 eggs.



SMALL SIZE SUPERIOR INCUBATOR.
Capacity, 65 eggs.

CYPHERS COAL-BURNING COLONY HOVER.

This colony brooding device meets the requirements of the poultryman who wishes to brood in one flock from 300 to 1,000 chicks, thereby reducing to the lowest point the time, labor and cost of raising his fowls.

Distinguishing features of this hover are ruggedness and simplicity. At no point is there anything useless, unnecessary or foolish about the entire device. The stove consists of a one-piece, heavy-weight cast iron fire pot resting upon the large circular heater base and ash pit, which also is cast in one piece. The construction of the entire stove ensures a brooding device that will last for years. The fire pot of the stove is cone-shaped and largest at the bottom. It is impossible for the fuel to clog and not feed down regularly. The ample capacity of the fire pot makes more than two coalings a day unnecessary. A twelve-inch, anti-clinker, combination shaker and dumping grate, with draw center, makes it easy to keep an even, steady fire.

The adjustable hover dome is made without hinged doors or lifting or sliding sections to allow valuable heat to escape. The conical shape of the dome prevents chicks from roosting on it and fouling the top.

Every poultryman understands the importance of regulating the heat under the hover so that the chicks will thrive and develop rapidly. The Cyphers Coal-Burning Hover is equipped with a simple and efficient automatic regulator which ensures an even temperature below the hover.

The Cyphers Colony Hover is easy to install, and can readily be moved from one building to another. Many owners use them during the winter and early spring for sprouting oats with great success.

The Cyphers colony stove or heater is made in two sizes, large and small, and there also are two sizes of adjustable domes or chick canopies, one that is 42 inches in diameter, and the other 60 inches, or full 5 feet in diameter. This gives us four "combinations" which are equivalent to **four sizes**.

The **small heater** and **small dome** will do good work in cold latitudes in moderate-sized rooms or warmly-built poultry houses, brooding any number of chicks up to 600.

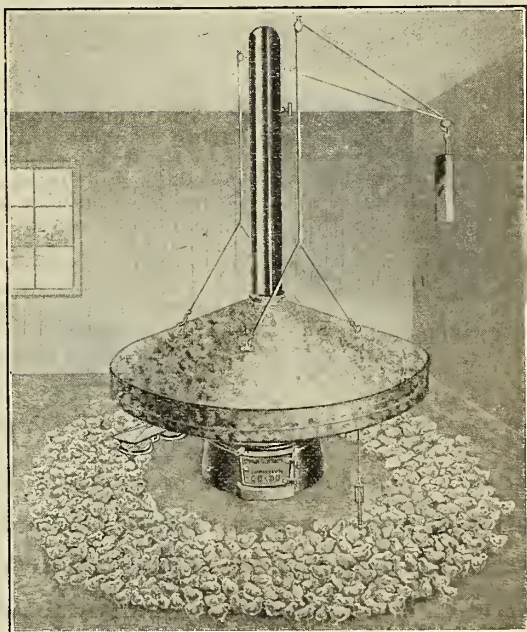
The **large heater** and **large dome** will do good work in cold latitudes in considerably larger rooms or well-built poultry houses, and brood 600 to 1,000 chicks and upward.

The **small heater** and **large dome** will do good work in rooms or houses 10x10 feet up to 15x15 feet in moderate climates or during spring weather, and brood 600 to 1,000 chicks and upward.

The **large heater** and **small dome** will do good work in extra cold latitudes, also in poorly constructed houses, brooding any number of chicks up to 600 or 800.

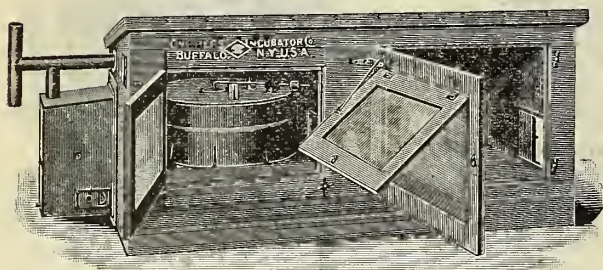
PRICES.

- OUTFIT No. 2. With small heater and 42-inch dome, and with automatic regulator, capacity 300 to 600 chicks. \$25.00.
- OUTFIT No. 4. With small heater and 60-inch dome, and with automatic regulator, capacity 600 to 1,000 chicks. \$31.50.
- OUTFIT No. 6. With large heater and 42-inch dome, and with automatic regulator, capacity 300 to 600 chicks. \$27.00.
- OUTFIT No. 8. With large heater and 60-inch dome, and with automatic regulator, capacity 600 to 1,000 chicks. \$33.50.



CYPHERS COLONY HOVER IN USE.

CYPHERS COMPANY BROODERS and HOVERS.



CYPHERS STYLE C OUTDOOR BROODER.

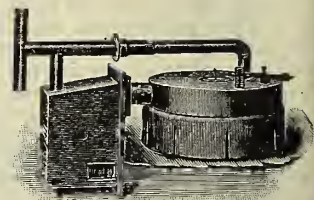
Fireproofed Insurable, Self-Ventilating and Self-Regulating.

Same in all respects as the popular Style B Brooder, except that hover apartment has double walls with air-tight space between, and window to hover apartment has double glass with air space between. Is especially recommended for extra cold climates, and in the early brooding season.

THIS DOUBLE USE of the Cyphers Brooder **means a considerable** saving of money. It makes a safe and comfortable enclosure for the young chicks at night, and saves the buying of a coop for them. These outdoor brooders, on account of their fireproof construction, can be used indoors, although we supply a special brooder, Style D, for indoor purposes. All Cyphers 1916 Brooders, both outdoor and indoor, contain **either two or three apartments**. The popular Style C (shown in illustration herewith), contains three apartments; first, roomy space under the hover; second, hover chamber; third, well lighted exercising apartment. It has often been said by users of Cyphers Brooders that **"They mother the chicks better than a hen"**.

CYPHERS ADAPTABLE HOVER.

The Cyphers Adaptable Hover is self-ventilating and self-regulating. It furnishes a continuous supply of **fresh, pure warmed** air under the hover, and at the same time maintains a steady, uniform heat. All the essentials of successful brooding of chicks are automatically provided. Thousands of poultry growers use this hover in raising big, strong flocks of chicks. It is "adaptable" to use in colony coops, in portable houses, in home-made brooder coops, such as goods boxes, piano boxes and organ cases, as well as in large brooding houses. It is constructed entirely of non-combustible material, and bears the fire underwriters Inspected Brooder label. Capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old.



ALL METAL ADAPTABLE HOVER.

(Self-regulating and bears insurance label as separate device.)



CYPHERS PORTABLE HOVER.

CYPHERS PORTABLE HOVER.

The Cyphers Portable Hover is the only **self-regulating and self-ventilating** "Portable" brooding hover thus far invented, and we guarantee it to be the best brooding device of the kind on the market. As it is equipped with the same high-grade thermostat as the Cyphers Incubators and the Cyphers Adaptable Hover, it maintains a **steady and uniform heat**. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover.

This Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old.

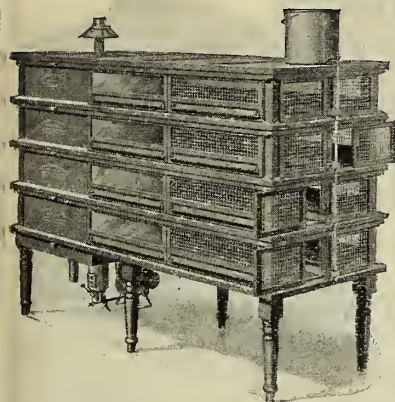
SIZES AND PRICES OF CYPHERS HOVERS AND BROODERS.

Hovers, either Adaptable or Portable, capacity 75 chicks,	-	-	-	\$ 9.00
Style A, Two Apartment Outdoor Brooder, capacity 75 chicks,	-	-	-	14.50
Style B, Three Apartment Outdoor Brooder, capacity, 100 chicks,	-	-	-	18.50
Style C, Three Apartment Outdoor Brooder, capacity 100 chicks,	-	-	-	20.00
Style D, Two Apartment Indoor Brooder, capacity 75 chicks,	-	-	-	13.50

THE PARADISE BROODER.

FOR INDOOR USE.

Sold in One, Two, Three or Four Sections.



We believe the Paradise One-Lamp Sectional Brooder to be the **best indoor brooding device invented thus far as a practical, convenient and economical nursery for newly-hatched chicks and ducklings.** It embodies the **correct principles** of brooding by artificial means, namely, heat, light, ventilation, room for exercise, fresh water, etc., **combined to an unequalled extent** with economy of instillation, of space occupied, of fuel consumed, of labor required, of money invested, and of time and attention in caring for the chicks.

Two brooders complete (four sections each), having a combined capacity of eight hundred chicks, can be operated in a room 12 x 12 feet with every convenience. Size of each brooder (floor space) is 3 x 7 feet, and an eighteen or twenty-four inch aisle is needed at ends and sides for operator.

Base section complete (including heater, fresh-air box, cover, legs, ventilating cap and water can, which are sent with base section only), \$24.00
Additional sections, each, 16.00

Hatching and Brooding by Electricity.

The use of electricity in hatching and brooding has several advantages over the usual methods—convenience in operation and saving in labor, while absence of fumes and gases allows of locating apparatus whenever most convenient. Regulation is simple and accurate. Heat distribution by this method is very uniform.

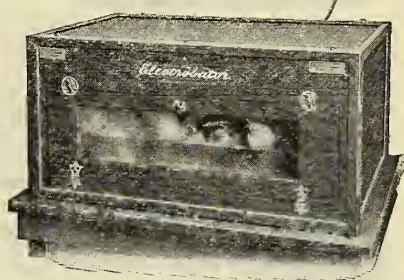


CYPHERS "ELECTROHOVER."

Cyphers Electrobater. Made in two sizes, finely finished, quarter sawed oak cases. Price, No. 1, capacity 60 hen eggs, \$18.00; No. 2, capacity 120 hen eggs, \$24.00.

Cyphers Electrohover. Used in either indoor or outdoor brooders. Easily moved about. Capacity, seventy-five newly hatched chicks. Price, \$10.00.

Electric Brooder, complete. With electrobater and wooden case, \$15.00.



CYPHERS "ELECTROBATOR."

An electrically heated and regulated incubator designed expressly for fanciers and poultry keepers who require small hatching capacity. Fireproof and bears fire underwriters' "Inspected Incubator" label. Made in two sizes: No. 1, 60-egg capacity; No. 2, 120-egg capacity.

BOSTON DRY-FOOD HOPPER.

MADE OF HEAVY, GALVANIZED IRON.

Large, for dry feed, holds 1-2 bushel, \$1.00
Small, for meat scraps, grit, etc., holds 1 peck,80
Short, chicken size, holds 1-2 peck,90
Long, chicken size, holds 1 peck, 1.25



Cyphers Grit and Shell Box.

Made of best grade galvanized iron, in one size only. Has three compartments, for grit, oyster shell and charcoal. Cover lid on a slant prevents fowls roosting on the box and keeps contents clean.

Price, 60 cents.



BOSTON DRY FOOD HOPPER.
Ready for Use.

Cyphers Dry Food Hopper.

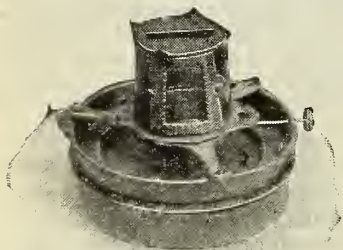
Is similar to the grit and shell box, but is larger and has two compartments, holding 3 quarts in one and 6 quarts in the other.

Price, 85 cents.

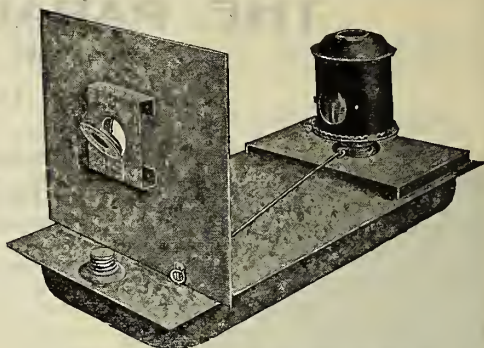
Cyphers Improved Insulated Brooder Stove.

This stove combines a heater proper, a burner equipped with new-style metallic chimney, which protects the flame at all heights from drafts and prevents smoking, an insulating plate that serves also as a stove slide, and an upright plate of galvanized iron that forms the door to the brooder through which the stove is operated.

Price, \$2.00.



Cyphers Safety Brooder Stove.



Cyphers Improved Insulated Brooder Stoves.

Cyphers Safety Brooder Stove.

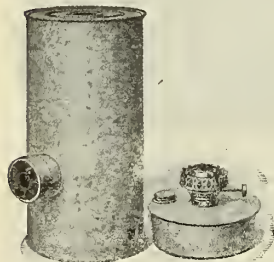
The safety water pan on the Cyphers Safety Brooder Stove holds nearly a quart of water, and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water one inch to one and one-half inches in thickness between the oil bowl and the flame jets.

Price, \$2.00.

Cyphers Practical Egg Tester.

Is 15 inches high, 7½ inches in diameter. Is made of galvanized iron, and is equipped with an extra strong reflector. The lamp is made of the best block tin, the seams being machine turned, and soldered and tested for leaks. The burner is of the latest pattern and construction. No chimney is furnished, because of the liability of breakage in shipping. An ordinary glass chimney will fit the burner and is exactly adapted to the purpose.

Price, complete (including box, lamp and reflector), \$1.50.



Cyphers Practical Egg Tester.

Cyphers X-Ray Egg Tester.

Is made of block tin and consists of a central cylinder or lamp flue 5¼ inches high, with an outside diameter of 2½ inches at the base, and 2¾ inches at the top. It is designed for use on an ordinary hand lamp, and fits over any style of burner with a diameter approximating that of the tester.

Price, 25 cents.



Cyphers X-Ray Egg Tester.

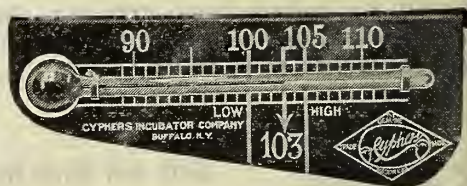
HIGH-GRADE TESTED THERMOMETERS.

The price of incubator thermometers does not include the wire hanger. Wire hangers will be supplied at ten cents extra for each thermometer. In ordering wire hangers, be sure to state size of your incubator and year manufactured. If machine has no packer's slip bearing date of manufacture, send description of machine. This is important.

When ordering brooder thermometers name the style of brooder in which it is intended to be used.



Cyphers
Brooder Thermometer.
Price, 50 cents.

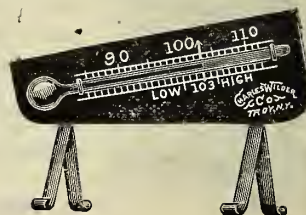


Cyphers Incubator Thermometer.
Price, 60 cents.

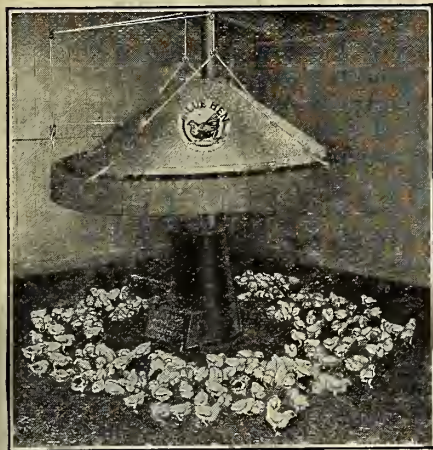
"WILDER" THERMOMETER.

Illustration shows the thermometer with legs unfolded. Easy to see, and may be quickly placed in any part of egg tray. Accurate to the smallest degree.

Price, 75 cents.



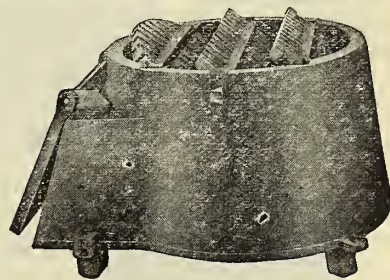
BLUE HEN HOT AIR COLONY BROODER, WITH AUTOMATIC REGULATOR.



SHOWING HOVER RAISED.

This photograph proves that the chicks find comfort in all places under the large Blue Hen Hover. See how close they nestle to the heater. No crowding or bunching together. This is a powerful heater with a 12" grate and will brood as many as 1,500 chicks.

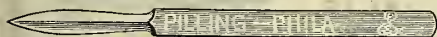
Although most brooder houses are only large enough for five hundred or eight hundred chicks, the **Blue Hen Hot Air Colony Brooder** is sufficiently large to brood any number up to 1,500 chicks if a brooder room of the proper size is available. The large, circular hover is 48 inches in diameter. It extends down close to the floor (actually 7 inches when one inch of litter is placed on the floor). The heater is of solid cast iron and will last a lifetime. The base is all made in one piece and the fire pot and top are all in one piece. Grates are 12 inches in diameter, of the rocking and dumping type, consisting of three separate grate bars linked together. These grates are especially designed so that either hard or soft coal can be used in the same heater, and so that any clinkers formed when using soft coal can be easily removed through the grates without disturbing the fire above. The fire pot is 12 in. in diameter, and has ample room for the burning fire and a 15 to 24 hours' supply of coal.



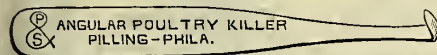
BASE AND GRATES OF HOT AIR
BROODER HEATERS.

Note the three rocking and dumping grate bars, that turn both ways, and are connected by one iron link underneath. Any grate bar can be quickly replaced—they just drop into position, soft coal clinkers are dropped out beneath these grates, without disturbing the fire. Note large roomy base and 14" legs under heater. These legs are cast fast to and part of the base plate.

Price (complete except funnel), \$14.50.



FRENCH POULTRY KILLING KNIFE.

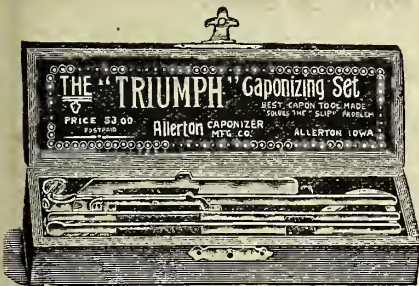


ANGULAR POULTRY KILLING KNIFE.

POULTRY KILLING KNIVES.

Every poultry raiser should have one of our killing knives. They are made of finely tempered instrument steel, with nicked handle. Sent postpaid, on receipt of price.

Angle blade, 50c. ; French, straight blade, 50c.



THE "TRIUMPH" CAPONIZING SET.

There is no doubt as to the advantages of caponizing. The operation is very simple and with a "Triumph" Caponizing Set it can be performed with safety and thoroughness.

Price, per set, \$2.50.

Philadelphia Poultry Marker.

Do you keep a record of chickens? There is no better or quicker way than by marking, as many different marks can be made by punching web between the toes. Made in two sizes. Sent postpaid, on receipt of price, **25 cents.**



CYPHERS POULTRY MARKER.

Makes a good, clean cut, does not mutilate the web, and is a thoroughly practical marker.

Price, 50 cents.



PERFECT CHICKEN PUNCH.

Chicks may be marked as soon as hatched, without injury.

Price, 25 cents.



Wilder Moisture Guage for Incubators.



incubator as near as possible to a desired point.

By noting the position of the mercury column, the operator can tell at a glance whether to increase or decrease this amount.

Price, \$1.25.

This instrument is designed to meet the demand of the practical poultryman for a simple, direct reading gauge which will enable him to keep the amount of moisture in his

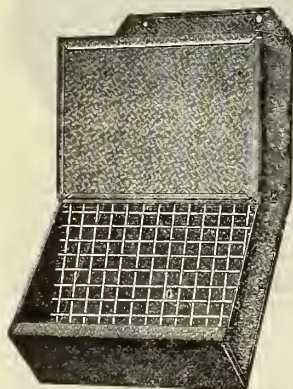
EGG CAMERA

**INSTANTLY TELLS THE GOOD
FROM THE POOR EGGS.**

Is substantially made and covered with black and green leatherette. Tester should be kept covered and the sensitized film should not be needlessly exposed to the bright light. Camera should last indefinitely, with reasonable care.

Price, 50 cents.

SEXTON DRY FEED HOPPER.



OPEN.

This hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed, as the pan at the bottom takes any feed that may be picked out, and the last crumb can be used, therefore saving any waste. The body being covered keeps feed dust-proof and clean, and is always dry.

Body made of galvanized iron and the grating is of round galvanized wire, preventing the poultry from cutting their bills.

The lower cover is so arranged that it is held up by locking the top cover of hopper over same, and by raising the top cover the lower cover will fall in place. Simple in construction, easily operated and absolutely "rat" and "mouse proof".

Price, poultry size,

\$1.15

" poultry extra large size,

1.50



CLOSED.



Hangs on two nails. Easy to clean. Saves waste. Always out of the way. Holds three quarts.

Price, 35 cents.



No. 1, 6 x 7 x 1 1/4 inches deep; capacity, 1 quart.

Price, 15 cents.

No. 2, 7 1/4 x 8 1/2 x 1 1/4 inches deep; capacity, 1 1/2 quarts.

Price, 20 cents.

No. 3, 18 x 6 x 2 1/4 inches deep; capacity, 5 quarts.

Price, 35 cents.

Atsatt Chick Feeder.

A neat device for feeding young chicks; they cannot get into it or stand on it. The top removes easily for cleaning or filling. 10 in. long, 4 in wide.



Price, 30 cents.

NORWICH AUTOMATIC FEEDER.

"FILL THE HOPPER AND THE BIRDS DO THE REST."

Fill the hopper with any dry grain feed, or any mixture of dry grain feed, and the revolving bait bar with cracked corn. Stand the Norwich Automatic Feeder anywhere in the yard, pen or house, and put any kind of litter under machine. Adjust valve to feed desired quantity. Adjust legs for required height. Every kernel of grain put in the hopper will go to your flock. Nothing will be lost from any cause. The exercise given by the action of the machine is just sufficient to keep the flock in perfect condition; a few days' trial will show the breeder that the flock will be bright and alert, and with a total absence of dull, stupid, or drooping appearance.

Price—No. 1, \$2.50

No. 2, 3.25

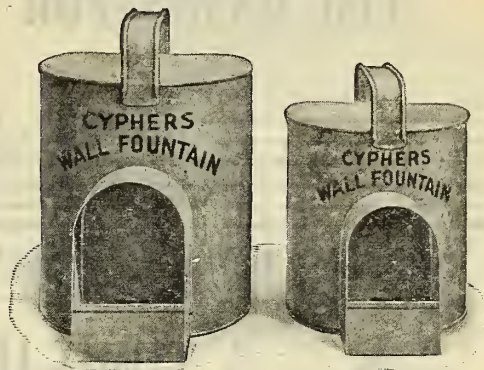


POULTRY DRINKING FOUNTAINS.

CYPHERS WALL FOUNTAIN.

The construction of these fountains prevents the water from getting dirty and full of litter. A galvanized iron hood keeps foreign matter from dropping into the water, yet allows fowls to drink readily. They are very convenient to handle, and can be hung up on the wall above the floor, the back of the can being flat. They will not break by freezing.

Price—1 gallon, 60 cents ; 2 gallons, 85 cents.



THE "SANITARY" FOUNTAIN.

Made of heavy galvanized iron, perfect in workmanship ; most convenient fountain on the market.

A one-gallon fountain will supply twenty fowls.

Price.
1 gallon, 60c.
2 gallons, 85c.



THE PEERLESS FOUNTAIN.

Protected from dirt and filth.

The fowl cannot injure their combs while drinking. Easy to clean and fill. Made of heavy galvanized iron. Durable and practical.



Price.

5 quart size, 60c.
Chick size, 30c.

STONE

FOUNTAIN.

Price.

1-4 gallon, 15c.
1-2 gallon, 20c.
1 gallon, 25c.



THE SANITARY CHICK FOUNTAIN.

The "chick" stands five inches high and holds one quart, and its construction gives no chance for the chicks to fall in and get drowned.

The square base makes it nearly impossible to tip over.

Price, 30 cents.



THE

Norwich Automatic Air-Lock Fountain.

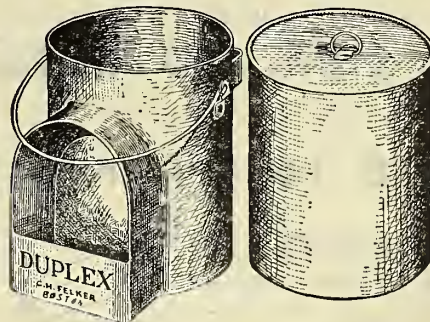
The most perfect device ever placed on the market for automatically supplying pure, fresh water in the poultry house. It is a physical and absolute impossibility to contaminate or pollute the water supply, and requires cleaning about once in three months, only. Is practically frost proof. Fitted with detachable cup, removable oil chamber, heat generator, etc.

Price.

Made in one size only, 5 gallons capacity.

Complete with burner base, \$3.00
Without burner base, 2.00

THE DUPLEX FOUNTAIN.



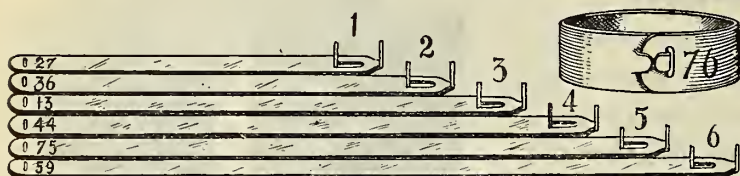
Top section slides into bottom section.

The latest and most practical sanitary fountain on the market. This is a double fount. Keeps the water clean and pure. Easy to fill ; easy to care for. Made in two sizes.

Price.

1 gallon, 60c.
2 gallons, 85c.

LEG BANDS FOR POULTRY AND PIGEONS.



DOUBLE CLINCH LEG BANDS

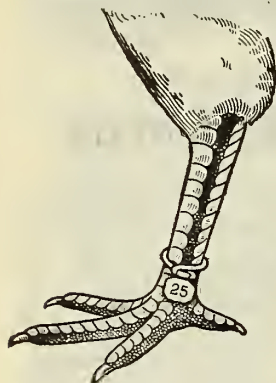
POULTRY SIZES
CUTS SHOW EXACT LENGTH

DOUBLE CLINCH LEG BANDS.

(Aluminum.)

These bands are neat, easily applied, and cannot come off by accident.

In ordering state what breed they are for, and what letters or numbers you wish put on them. Number 3 is the size most generally used for poultry.



CLIMAX LEG BANDS.

**Easily Applied
and
Easily Removed.**



Price.

75 cents per hundred.

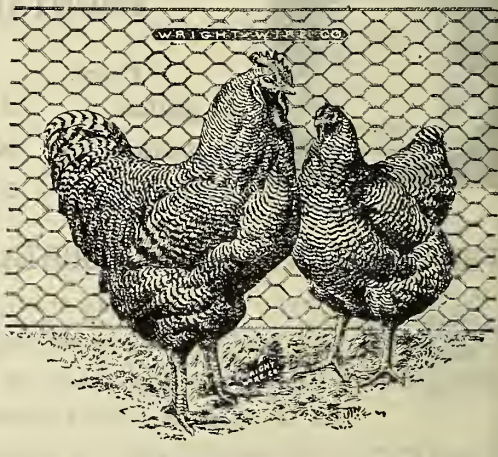
Price.

75 cents per hundred.

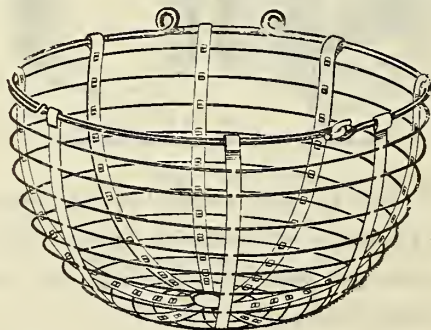
GALVANIZED POULTRY NETTING.

Made from selected steel wire, galvanized after weaving. Made in 2-inch and 1-inch mesh, and of a superior, smooth finish.

WRITE FOR PRICES.



WIRE HEN'S NEST.



Strongly made of heavy wire, and very durable. Fastens to the wall with two heavy screws. Easily kept clean. No harbor for vermin.

Price, 15c.; \$1.25 per dozen.

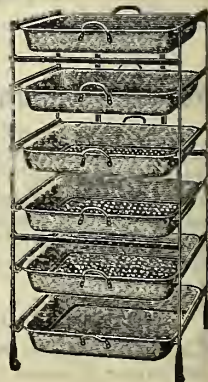
ECONOMY OATS SPROUTER.

The Natural Process for Sprouting.

Contains five sprouting pans and one drip pan 16 x 17 inches. Iron rack is 35 inches high.

By feeding sprouted oats through the winter, egg production can be kept up to a much larger degree than otherwise.

Price, \$5.50.



"K. & W." EGG CASE.

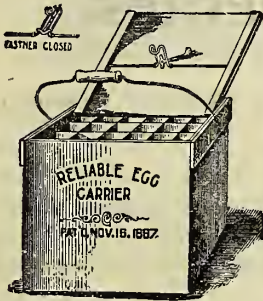
The most popular Egg Case in the market and used largely by shippers of eggs.

PRICES COMPLETE.

8 dozen	\$.75
15 " .....	.95
30 "	1.15
49 "	1.35
56 "	1.50

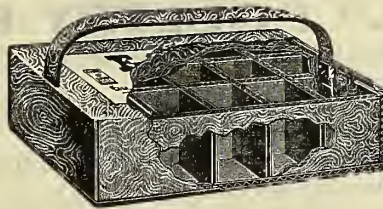


RELIABLE EGG CARRIER.



Has a patent fastening on the cover. Each carrier, with a capacity of 12 dozen, complete with fillers. Price, 65 cents.

EYRIE SHIPPING EGG BOX.

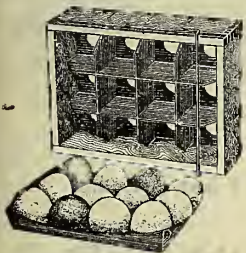


Unquestionably the best box on the market for shipping safely, fancy eggs by express. Made of heavy corrugated cardboard. They are very strong, compact, light and convenient. The handle, when put in place, locks the box and it cannot be tampered with in transit. The handle prevents the putting of anything on top of the box and thus prevents rough usage. 1 sitting, 15 cts. each, \$1.50 per doz.; 2 sittings, 20 cts. each, \$2.00 per doz.

STAR EGG CARRIER AND TRAYS.

The excellence and economy of Star Egg Carriers appeals to all who deliver eggs. Quickly filled and quickly emptied.

Carriers are made of strong wood, and can be piled deep in the delivery wagon.



PRICE.

No. 1 (1 dozen eggs),	.	.	.	.	\$2.25 per dozen.
No. 1 trays,	.	.	.	.	\$3.00 per M.

NEWFIELD POULTRY SHIPPING CRATE.

Made of green elm, then thoroughly dried. Its round corners prevent injury and loss by crowding, so frequent in square cornered crates.

Price, \$1.25.

ALFALFA MEAL.

This makes a green food the year round. It is very high in protein and furnishes to chicks a growing food, which at the same time has a medicinal value.

Price, in 100 lb. bags, \$1.85.

STERLINGWORTH POULTRY CHARCOAL.

PREPARED EXPRESSLY FOR FEEDING CHICKS AND FOWLS.

X (fine powdered), for mash foods for poultry and stock.

XX (fine granulated), especially for chicks.

XXX (medium granulated), for half-grown fowls and pigeons.

XXXX (coarse granulated), for fowls, geese and turkeys.

Price, 50 lb. paper lined burlap bags, \$1.00.

" 2 lb. pkg.,

.10.



"K. & W." POULTRY REMEDIES.

- Remedy No. 1.** For all forms of indigestion, liver disease, sour crop, crop-bound.
Remedy No. 2. For rheumatism and cramps.
Remedy No. 3. For all sudden colds, with sneezing, watery discharge from eyes and nose. Prevents roup.
Remedy No. 4. For catarrhal colds, with rattling in throat.
Remedy No. 5. For all diarrhoeas of poultry, and particularly in cholera.
Remedy No. 6. For diptheritic roup and canker.
Remedy No. 7. For chicken-pox, bumble-foot, to promote healing of sores. Cures chronic catarrh.
Remedy No. 8. For soft-shelled eggs, all diseases of egg organs and to correct sterility.
Remedy No. 9. For egg-bound. Also for the diseases where there is swelling of the eye with an accumulation of yellow matter under the lids.
Remedy No. 10. For worms.

These remedies are put up in tablet form, 100 tablets to a vial. Each label contains full directions for use and the diseases which the remedy will prevent or cure. Price, postpaid, 40c. per vial. Please order by number.

LEE'S LICE KILLER.



A liquid preparation having all the killing properties of any powder or dip; besides, the vapor that it gives off is destructive to insect life, though harmless to fowl. It permeates every crack and crevice of the poultry house, and all the hiding places of vermin and destroys them.

PRICE.

1 qt., 35c.; 1-2 gal., 60c.; 1 gal., \$1.00.

LAMBERT'S DEATH TO LICE POWDER.

15 oz. pkg., 25c.; 3 lb. pkg., 50c.; 6 1-4 lb. pkg., \$1.00.

"STERLINGWORTH" FISH FOOD.

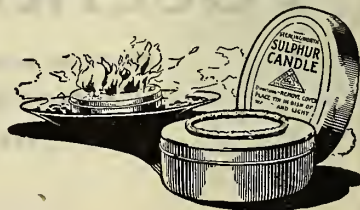
A pure food, prepared especially for feeding gold fish, etc.

Price, 10 cents per package.

Sterlingworth Sulphur Fumigating Candle.

The candle is made from pure high grade sulphur, and has a circular wick, which, when once lighted, stays lighted. Is especially useful to poultrymen in ridding poultry houses of insect pests, as the vapor from it penetrates crevices not reached by other means.

In circular tin box, price, 15 cents.



"K. & W." Poultry Feeds.

HIGHEST QUALITY AT LOWEST POSSIBLE PRICE.

"K. & W." Chick Feed, Scratch Feed and Poultry Mash.



"K. & W." Chick Feed.

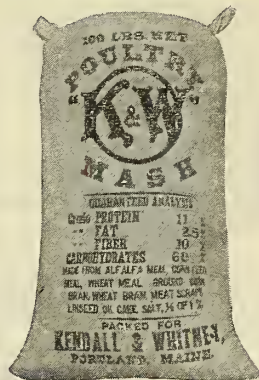
Nothing but sound, sweet ingredients are used. The finest mixture of grain possible for developing growing chicks and poultry.



"K. & W." Scratch Feed.

The "grain feed" for poultry. Will keeps fowls healthy, affording them plenty of exercise; an ideal "scratch feed".

WRITE FOR QUOTATIONS.



"K. & W." Poultry Mash.

A complete mash, which can be fed either wet or dry, at any time during the day. Is a highly nutritious balanced ration for laying hens, as it is high in egg-making qualities.



GREENE'S "FIRST FEED".

"First Feed" is prepared solely for baby chicks and is made from white corn, steam cooked, yellow corn germ meal, shredded codfish, steam cooked, ground hulled oats, steam cooked, dried milk, steam cooked, entire wheat, cod livers, steam cooked, ground flaxseed, gluten meal, steam cooked, dried blood, steam cooked, shell lime and fine ground meat scraps, steam cooked, **mixed in proper proportions**. Five pounds of "First Feed" will feed one hundred chickens for the first week.

5 pound package, 25 cents.

Write for quotations for 25 lb., 50 lb. and 100 lb. bags.

POULTRY FOODS AND SPECIALTIES.

"K. & W." Oyster Shells.
Chicken Grit (fine).
Pigeon Grit (medium).
Poultry Grit (coarse).
Bone Meal.
Poultry Bone.

Beef Scraps.
Bone and Meat Meal.
Sunflower, Millet and Hemp Seed.
Linseed Meal.
Buckwheat.
Barley.

Wheat.
White Canada Peas.
Kafir Corn.
Tobacco Dust (in bulk).
Powdered Tobacco (in packages).
Nest Eggs.

Write for quotations.



"K. & W." ROUP REMEDY.

Is guaranteed to cure any case of roup, if used according to directions.

Price per pkg. (makes 25 gals.),
postpaid, 25 cents.

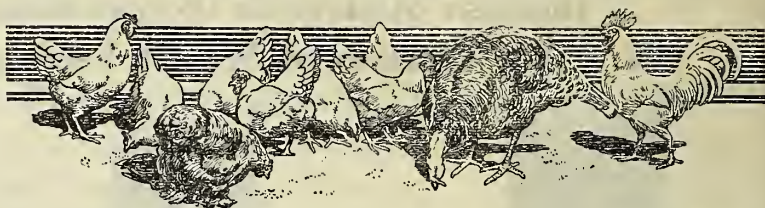
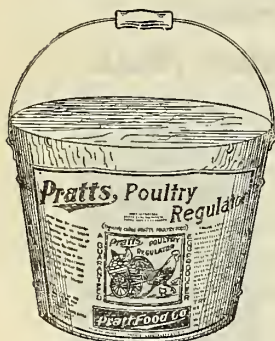


STERLINGWORTH DIARRHOEA REMEDY.

A reliable remedy for diarrhoea, dysentery and other kindred bowel troubles in young chickens, full-grown fowls and pigeons. Keep it on hand and use it as a preventive. It is a powder for use in the drinking water. The chickens and fowls take their own medicine.

Price, per box, sufficient for several flocks, 50 cents, postpaid.

"PRATTS."



Pratts Poultry Regulator.

THE GUARANTEED EGG PRODUCER.

Costs only a Cent a Hen a Month.

This is the original Poultry Regulator of America, in use by the most successful poultry raisers everywhere.



It is a guaranteed egg producer, and when regularly used, hens lay throughout the year. It is a perfect digestive and tonic, and will prevent chicken cholera, gapes, roup, rheumatism, expel worms, prevent leg weakness, egg eating. It also greatly improves turkeys, geese, ducks and pigeons, insuring quick, healthy growth. 25c., 50c. and \$1.00 packages. 12 lb. pail, \$1.25; 25 lb. pail, \$2.50.

Pratts Baby Chick Food.

Makes Baby Chicks Grow.

Costs only a Cent a Chick for Three Weeks.

This is one of the greatest money savers and greatest chick savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratts Baby Chick Food. It is a scientific food ration to be fed for the first three weeks. If you want *real success* with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratts Baby Chick Food.



25c. and 50c. packages.

Pratts Roup Remedy.

Individual as well as Flock Treatment Made Easy

At last you have a scientific preparation *guaranteed* to prevent and cure roup, colds, canker, catarrh and diphtheria.

In severe cases individual treatment with the tablets is the only sure method. For mild cases and as a preventive crush the tablets or use the powdered form, and mix in the drinking water.

Sold in 25c. and 50c. packages.



Pratts Animal Regulator.

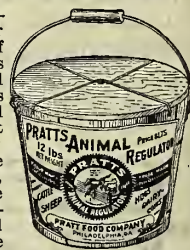
For Horses, Cows, Hogs and Sheep.

Makes Cows Give More Milk.
Costs only a Cent a Day a Cow.

This is the original and pioneer stock regulator of America. It keeps horses well and strong, improves their wind, and makes their coat sleek and glossy. Cows give more and richer milk, the percentage of butter fat being increased, and their calves are strong and healthy. Steers fatten in half the time.

Hogs are raised and fattened quickly and kept free from disease. Sheep are kept healthy, and their meat and wool improved by its use.

25c., 50c. and \$1.00 packages.
12 lb. pail, \$1.50; 25 lb. pail, \$2.50.



Pratts Powdered Lice Killer.

Effective without Causing Irritation to Lungs or Skin.

It quickly and thoroughly kills all lice on little chicks, big chicks, sitting hens, and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. A valuable deodorizer and disinfectant, for all poultry houses, barns, stables and dwellings. Drives out moths from closets, furniture, carpets and clothing.



25c. package.

Pratts Conditioner.

Not a Feed—a Conditioner.

A medicinal preparation for horses, cattle, sheep, hogs and young pigs, purifying the blood, regulating the bowels and digestive organs, preventing indigestion and loss of appetite, and assuring, in all stock, a sound and vigorous condition.

7 lb. packages, 50c.
12 lb. pails, 90c.; 25 lb. pails, \$1.70.

Pratts Head Lice Ointment.

Guaranteed to Protect Baby Chicks.

Pratts Head Lice Ointment causes immediate death to the head lice which kill so many thousands of little chicks yearly. Head lice weaken the chick's health—and a chick in weakened condition easily contracts many other diseases. Pratts Head Lice Ointment prevents this. It is non-poisonous and is also a remedy for scaly leg.

Sold in 25c. tins.



Pratts POULTRY DISINFECTANT AND LIQUID LICE KILLER.

If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with Pratts Poultry Disinfectant, most all their troubles would vanish. This disinfectant is a real wonder-worker in the poultry yard.

1 quart, 35c.; 2 quart, 60c.; gallon, \$1.00.



There is a Pratt remedy for nearly every curable poultry disease.

INTERNATIONAL STOCK AND POULTRY PREPARATIONS.

Are manufactured with the utmost care from the purest ingredients. The fact that International preparations have been successfully sold for more than a quarter of a century attests to their superior qualities. We carry the following preparations in stock at all times.

"International Stock Food Tonic."

"International Poultry Food Tonic."

"International Heave Remedy."

"International Worm Powder."

"International Pheno."

"International Sulpho Salts."

"International Silver Pine Healing Oil."

"International Colic Remedy."

"International Worm Remedy."

"International Louse Killer."

"International Foot Remedy."

"International Gall Heal."



INTERNATIONAL STOCK FOOD TONIC

is composed of finely powdered medicinal herbs, roots and bark, and is to be fed in tablespoonful amounts mixed with the regular grain food. Its use greatly aids digestion and assimilation, tones up the system, prevents disease and keeps the animals in a healthy, growing condition. "International Stock Food Tonic" is positively guaranteed to be the greatest animal tonic ever formulated. Endorsed by over two million practical money-making farmers and stock breeders.

In packages, 25c., 50c. and \$1.00
25-pound water tight pails, \$3.25

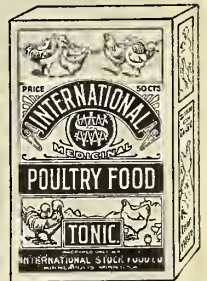


INTERNATIONAL POULTRY FOOD TONIC

will greatly increase the egg production of any flock by invigorating the egg-producing organs, and hens will lay for a longer period.

International Poultry Food Tonic cures and prevents diseases and sickness, promotes good health, invigorates the digestive organs, supplies material for bone, muscle and feathers, and is very beneficial during the moulting season. Costs only 8 cents a month for 12 birds.

In packages, 25c., 50c. and \$1.00



CARBONOL IN THE HEN HOUSE.

Carbonol should be used as a general disinfectant in hen houses to keep them clean and healthful, kill lice and destroy any disease germs before they have a chance to infect the flock.

LICE AND ALL KINDS OF VERMIN

may be destroyed on poultry, pigeons, etc., by painting roofs and spraying floors and walls of their coops and houses with a 1-65 solution of **Carbonol** (about one tablespoonful to a quart of water).

PRICE.

4 ounce bottle, 25c.; pint bottle, 50c.; quart bottle, 75c.; 1 gallon can, \$1.75.



Blatchford's Calf Meal

The Complete Milk-Equal

THIS is in reality a substitute for milk—and should not be considered as an ordinary "feed" or "meal."

\$3.50 per 100 pounds

It contains all the elements of milk and when properly prepared becomes a "baby food" for calves and colts. It is just the thing for weaning calves as soon as they can be taken away from the cow. Then all the milk may be sold and you get the benefit of the high creamery prices.

It is absolutely the only milk-substitute that contains all the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for digestion.

Will push calves and colts forward better and quicker than any other food

100 pounds makes 100 gallons of Complete Milk-Equal

Send for your copy of this booklet



CHICKS started on Blatchford's Milk Mash are never bothered with diarrhea. It nourishes the same as whole milk, and the chicks you save by it will prove the wisdom of its use.

Milk-fed broilers are being successfully raised on this Milk Mash. They grow rapidly to big birds and command top prices on account of their size and choice quality of meat.

Five pounds will raise a chick to the age of three months.

\$3.50 per 100 pounds



WEAN your little pigs easily, quickly and safely on our complete milk-equal for pigs.

Blatchford's Pig Meal

contains just the right percentage of vegetable protein, fat, moisture, ash, etc., for this work. It keeps them growing sturdily, rapidly and profitably instead of taking on excess fat.

It grows bone and solid flesh, prevents losses of growth and vitality during the critical weaning period and always makes the runts catch up.

\$3.50 per 100 pounds



BLATCHFORD'S "Fill the Basket" Egg Mash is a perfect, complete food for encouraging the natural egg-laying functions to greater results and contains nothing resembling a drug.

It starts the pullets laying at five to six months of age, keeping them in perfect health all the time.

The average hen will consume about a pound a week, costing less than four cents, but her results will surprise you during both winter and summer.

\$2.75 per 100 pounds



Make every layer a winter payer

A slogan for poultrymen



PRAY'S PATENT ICE PLOW.

This plow is especially designed to meet the demand for cheap and efficient ice cutter for farmers and dairymen. It will cut from 20 to 40 tons an hour, cutting the ice blocks of uniform size, which saves much labor when packing.

The extra weight of the rider holds the plow to its work and allows the horse to be hitched much closer to the plow—an advantage where the pond is small and all the ice needed from the edge of the pond.

It is the only plow that can be successfully used by one person. The draft back of runners omits the necessity of leader or rider.

It is the only plow that has an adjustable tooth.

It is the only plow that works with runners.

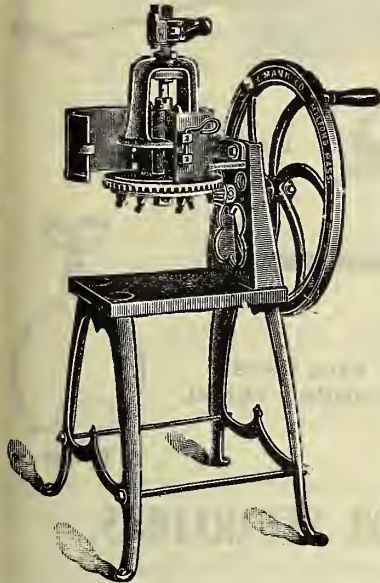
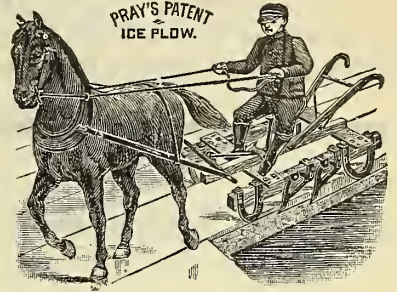
It turns easier at the end of the row than any other plow.

It cuts ice with more economy on a small pond than any other plow.

Upon a shallow pond where a saw cannot be used this plow is indispensable. A horse and one man can cut as much ice as ten men with saws.

WARRANTED TO WORK AS REPRESENTED.

Price, Four-Tooth Plow, \$12.00; Six-Tooth Plow, \$16.00; Eight-Tooth Plow, \$17.00; Ten-Tooth Plow, \$18.00.



No. 9.

Mann's Bone Cutters.

THE STANDARD OF EXCELLENCE.

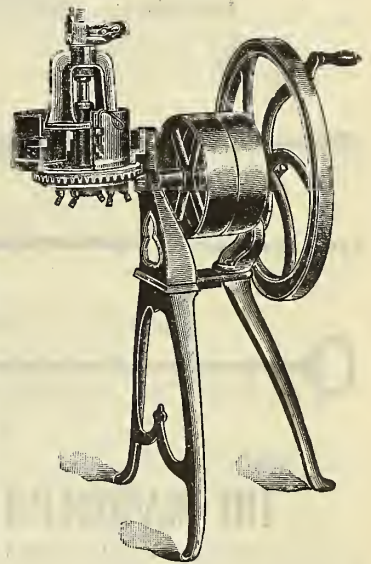
A Standard which has only been Obtained by Years of Experience.

PRICE LIST.

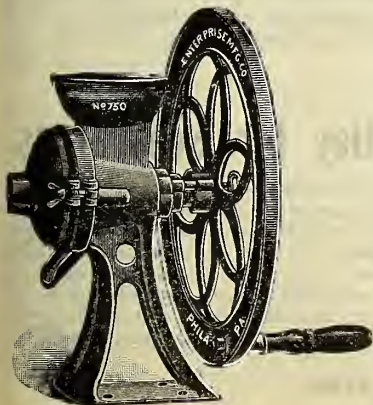
NO DISCOUNT FROM THESE PRICES.

No. 5C (with Crank Handle),	\$6.00
No. 5B (with Balance Wheel),	8.00
No. 5BM (with Bal. Wheel & Iron Stand),	10.40
No. 7 (with Balance Wheel),	12.00
No. 7 1-2 (Semi-power Machine),	16.00
No. 9 (Standard Bone Cutter),	18.40
No. 11 (Comb'n Power Cutter),	26.00
No. 12 (Small Power Cutter),	30.00
No. 15 (Large Power Cutter),	60.00
No. 14 (Large Power Cutter),	76.00

Send for Illustrated Catalog.



No. 7 1-2.



ENTERPRISE HAND MILL.

In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish; has a heavy fly wheel and is light running.

Capacity, 1 to 2 bushels per hour.

Price on application.

ICE TOOLS.

Everything in ice harvesting tools and supplies for ice men, dairymen and farmers. Complete illustrated catalog sent upon request. **Write us for pamphlet "How to Harvest Ice".**



Bar Chisel.

Breaking Bar.



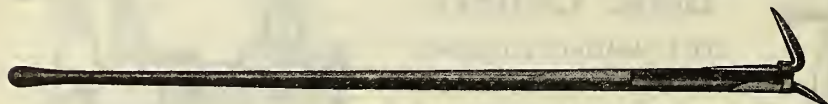
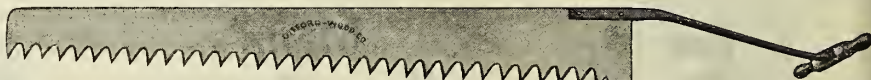
Splitting Fork.

Ice Shaver.



Splitting Chisel.

Ice Saw.



Ice Hook.

Line Marker.



Ring Handle Splitting Chisel.

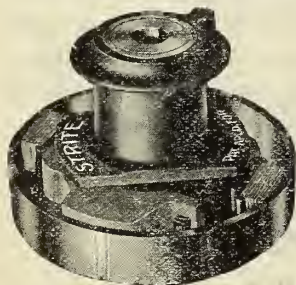


Tongs.

THE RANDOLPH GOVERNOR PULLEY FOR SEPARATORS.

Absolutely governs the speed of the separator, releasing automatically when the proper speed is attained and absorbing all shocks from the gasoline engine. It runs in either direction without any change or adjustment. The pulley standard can be placed on the floor, side wall, or overhead, to suit conditions. Embodied in the construction of this pulley is the loose pulley feature, whereby the separator may be stopped without stopping the engine. Attention is called to the fact that after the proper speed has been attained by setting the jamb nuts on the hand wheel thread, the correct speed will be maintained without further attention.

Price, \$10.00.



The Strite Governor Pulley for Separators.

The governor pulley is not placed directly upon the cream separator, but must be placed either upon the engine shaft or upon a line shaft or countershaft, either of which must run 200 revolutions per minute or more. The shaft can vary in speed anywhere from 200 to 1,000 revolutions without affecting the speed of the cream separator. To drive any make, or size, of hand power cream separator successfully, place an ordinary 12-inch pulley upon the shaft where the hand crank is attached. With this governor pulley you could start your power in motion full speed and the cream separator would require from 2½ to 3 minutes in coming up to its full speed. The governor pulley is bored to fit different size shafts, smallest size 15-16 inch, largest size 2½ inches.

Price, No. 1, \$7.50.

DE LAVAL CREAM SEPARATORS

Skim Cleanest, Have Largest Capacity, Turn Easiest, Are Easiest to Wash, Last the Longest.

DE LAVAL SEPARATORS ARE IN A CLASS BY THEMSELVES.



If you are milking even as few as two or three cows and are not using a De Laval Cream Separator you are wasting both quantity and quality of cream every day you go without one.

The De Laval saves enough over any gravity setting system in butter fat, quality of cream, sweet skim milk, labor, time and trouble, to pay for itself every six months.

The De Laval saves enough over other separators in closer skimming, in running heavier and smoother cream, skimming cool milk, greater capacity, easier cleaning, easier running and fewer repairs, to pay for itself every year.

The 1916 Improved De Laval saves enough over De Laval machines of five, ten, fifteen or twenty years ago, in closer separation under all conditions, greater capacity, easier running and greater mechanical perfection, to pay for itself every two years.

We will be glad to submit an arrangement whereby the purchaser, if he desires, may make a partial payment at time of purchase and pay the balance on such easy terms that it will pay for itself out of its own savings.

EXCHANGE ALLOWED ON ALL OLD MACHINES.

We will be glad to mail you a catalog.

If you are a cow owner you ought to have a copy of the De Laval Dairy Handbook. Free upon request.

UNITED STATES CREAM SEPARATORS.

The "ONLY" Cream Separator.

The **ONLY** cream separator with a skimming device of **nickel silver non-rusting** sections.

The **ONLY** cream separator with a **rustless bowl chamber liner**.

The **ONLY** cream separator adapted for **mechanical cleaning**.

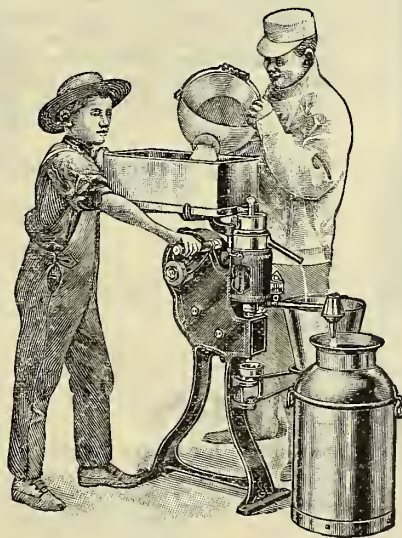
The **ONLY** cream separator with a neck-bearing **adjustable while running**.

The **ONLY** cream separator with **medium** sized gears, all enclosed and all running in oil.

The **ONLY** cream separator from whose bowl **all** the cream can be recovered or "flushed".

The **ONLY** well known cream separator that skims **nature's way**—cream rising to top, skim-milk settling to bottom.

The **ONLY** cream separator to which the crank can be attached **on either side**.



The **ONLY** cream separator on which **crank may remain** when operating by pulley on opposite side.

The **ONLY** cream separator that can produce **thick** cream and skim **clean** at the same time.

The **ONLY** cream separator to win a **world's record** for **closest** skimming.

The **U. S.** Interlocking Sectional Type **differs vastly** from the disk or any other separator construction. It is the modern product of **new** and **better** ideas and is manufactured under the latest cream separator patents; **antiquated, abandoned principles of construction** having **no place** in its **make-up**.

If you want a cream separator the **women folks can run** and **take care** of **with pleasure**, investigate the U. S.

Write for illustrated catalog.

The Stoddard Churn.

ONE OF THE MOST PERFECT CHURNS MADE.

The Stoddard Churn is made by hand in the most thorough manner and of kiln-dried white oak. It will last for years. The principle is concussion and not friction—has no floats or paddles inside. It is easily operated and easily cleaned. Perfect in construction, and having no parts liable to break or get out of order, it fully meets the requirements of large or small dairies.

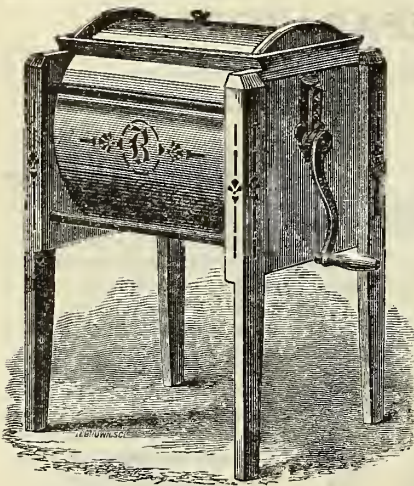


No.						Net Price.
1	10 gal.,	churns from 1 to 4 gals. cream,				\$10.00
2	15 "	"	"	2 to 7 "	"	10.50
3	20 "	"	"	3 to 9 "	"	12.00
4	25 "	"	"	4 to 12 "	"	14.00
5	35 "	"	"	5 to 16 "	"	16.00
5½	45 "	"	"	5 to 20 "	"	20.00
6	60 "	"	"	6 to 28 "	"	23.00

THE MAGIC CHURN.

The Magic Churn we offer to those desiring a low-priced barrel churn. The churns are made of white oak, thoroughly seasoned and kiln-dried. The cover fastening is simple and efficient.

No.						Mnfr.'s List.	Net Price.
0	6 gallon,	churns from 1 to 3 gals. cream.....				\$ 8.00	\$ 4.25
1	10 "	"	"	1 to 5 "	"	9.00	5.00
2	15 "	"	"	1 to 7 "	"	10.00	5.50
3	20 "	"	"	2 to 9 "	"	11.00	6.00
4	25 "	"	"	2 to 12 "	"	14.00	7.50
5	35 "	"	"	3 to 16 "	"	16.00	8.75
6	60 "	"	"	6 to 22 "	"	22.00	11.00



THE BLANCHARD CHURN.

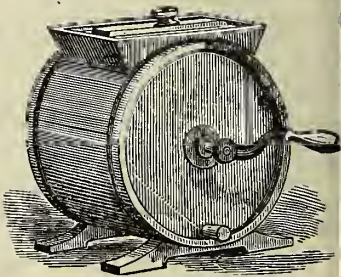
The following are the leading merits of the BLANCHARD CHURN: Perfect quality of all materials used. Excellency of manufacture. Simplicity of construction, having no cog wheels or gearing. Durability. Ease of operation. The action of the dasher is such as to cause agitation of the cream by creating currents, and not by beating or by friction of the cream, which may injure the grain of the butter. Facility in removing the dasher and getting at the butter. Ease of cleaning, the form of construction making the inside without any inaccessible or invisible angles or corners.

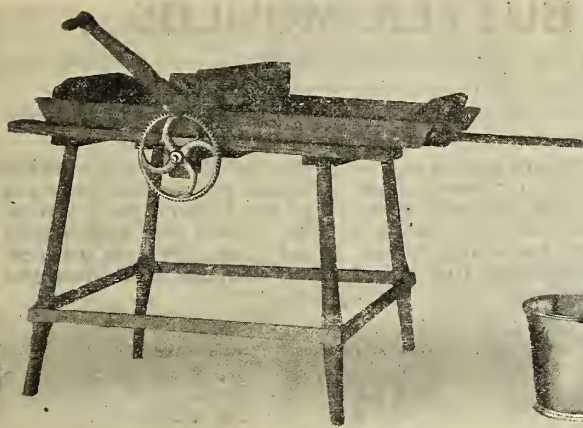
		Mnfr.'s List.	Net Price.
No. 3,	for up to about 2 gallons of cream,	\$ 6.00	\$4.50
No. 4,	" " 4 " "	7.00	5.00
No. 5,	" " 6 " "	8.00	5.75
No. 6,	" " 12 " "	10.00	7.00
No. 7,	" " 16 " "	12.00	8.50

CYLINDER CHURN.

A favorite style of churn which has been in use for many years.

No.				Mnfr.'s List.	Net Price.
No. 1,	capacity 2¼ gallons.....			\$2.50	\$2.25
No. 2,	" 4 "			3.00	2.50
No. 3,	" 7 "			3.50	2.75
No. 4,	" 10½ "			4.00	3.00





THE Waters Butter Worker

Practical, efficient, durable. It combines more advantages than any other. The tray is removable and thus takes the place of the butter bowl.

Will work butter in any condition satisfactorily. Made in sizes to suit any dairy or factory.

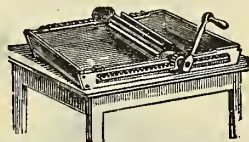


Size No.	Length of Tray.	Width of Tray.	Capacity.	Mnfr.'s List.	Net Price.
0.	27 in.	14 in.	1 to 15 lbs.	\$ 7.00	\$ 6.50
1.	36 in.	15 in.	5 to 30 lbs.	8.00	7.50
2.	36 in.	18 in.	5 to 40 lbs.	9.00	8.50
3.	39 in.	20 in.	5 to 50 lbs.	10.00	9.50
4.	48 in.	22 in.	10 to 75 lbs.	12.00	11.00

REID'S PATENT BUTTER WORKER.

These machines are all built of the best material.

The iron part is galvanized, preventing rust.



No.	Size, 23 x 36 inches, 2 1/2 inches deep inside ; capacity, 50 lbs.,	Mnfr.'s List.	Net Price.
No. 1.	Size, 23 x 36 inches, 2 1/2 inches deep inside ; capacity, 50 lbs.,	\$10.00	\$8.00
No. 2.	" 20 x 36 " 2 1/2 " " " " " 30 "	8.00	6.50
No. 3.	" 17 x 27 " 2 1/2 " " " " " 20 "	7.00	5.50
No. 4.	" 14 x 23 " 2 1/2 " " " " " 10 "	6.00	4.75

Three pounds can be worked in any of the above machines, as well as a larger quantity. In buying a worker you should choose a size that will work the largest quantity that you will be likely to want to work at a time.

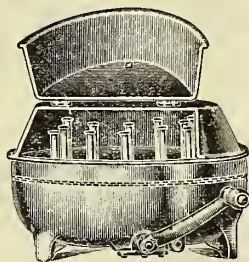
THE "FACILE" IMPROVED BABCOCK MILK TESTER.



The "FACILE" Tester has taken the lead over all other Babcock machines, not only among creameries and cheese factories, but in State Experiment Stations and Dairy Schools. Several attempts have been made to copy the machine, but so far nothing has been produced embodying all of its desirable features, and it remains to-day the leading Babcock machine.

Prices include full set of glassware, comprising test bottles, pipette and acid measure; also test bottle brush and bottle of acid.

2 bottles.....	\$4.00
4 "	5.00
6 "	8.25
8 "	9.00
10 "	10.50
12 "	13.50



COOLEY CREAMER.

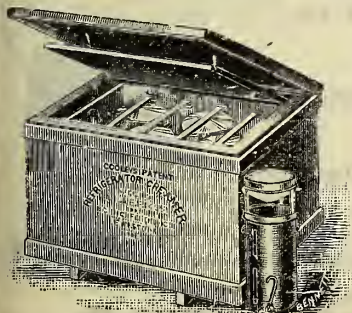
"REFRIGERATOR STYLE."

"Refrigerator" style has double walls, with two air spaces and two covers, and not being readily affected by heat or cold will require much less ice in the summer season than a single wall tank, and the water will not freeze in the winter season.

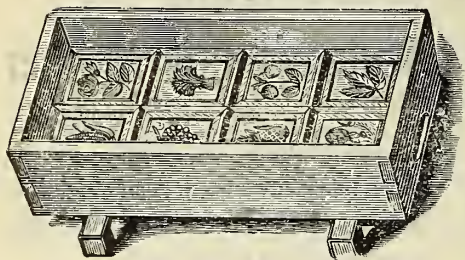
Price of Tank, less Cans :

	Price.		Price.
No. 2, for four cans.....	\$18.50	No. 6, for twelve cans.....	\$32.00
No. 3, for six cans.....	21.50	No. 7, for fourteen cans.....	36.50
No. 4, for eight cans.....	24.50	No. 8, for sixteen cans.....	39.00
No. 5, for ten cans.....	27.50		

COOLEY CANS, SEPARATE FROM TANK, \$2.25.



COMBINATION BUTTER MOULDS.



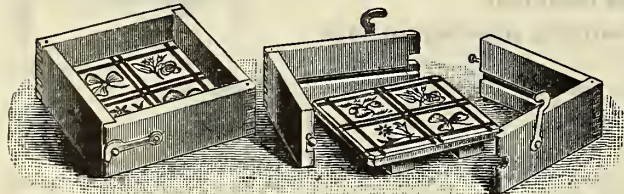
These moulds are expressly designed to meet the demand for strictly first-class, hand-carved designs.

The cut here shown represents No. 6, which holds two pounds, and is divided into eight ¼-pound cakes.

Prints engraved to order, with ordinary designs, initials, or monogram, without extra charge, excepting that, should more than six letters be wanted on each cake, a charge of five cents per letter will be made for each letter in excess. Prices quoted on application for special or complicated designs or lettering.

No. of Print.	No. of Cakes.	Capacity in Pounds.	Capacity of each Cake in ounces.	Dimensions of Moulds in inches.	Dimensions of each Cake.	Price
2	4	2	8	11 x 3¾	3¾ x 2¾	\$3.75
3	4	2	8	12 x 3	3 x 3	3.75
4	4	1	4	4½ x 5	2¼ x 2½	3.50
5	4	1	4	10 x 2½	2½ x 2½	3.75
6	8	2	4	10 x 4½	2½ x 2½	4.50
7	6	1½	4	10 x 3½	3½ x 1¾	4.25
8	12	1¼	2	12 x 4	2 x 2	5.00
9	16	1	1	10 x 3	1½ x 1½	5.00
10	24	1½	1	10 x 4	1½ x 1½	5.25
12	8	4	8	11 x 5	2¾ x 2½	4.50
20A	4	2	8	11 x 4½	3½ x 2½	3.75

BLANCHARD BUTTER MOULDS.



1-2 lb., two 1-4 lb. prints, 40c.; 1 lb., four 1-4 lb. prints, 50c.; 2 lbs., eight 1-4 lb. prints, 75c.

If engraved with initials, or any hand carving, add to the REGULAR PRICE, 25 cents for each cake so engraved.

TUB COVER FASTENERS.

Made from tin; easily applied, easily withdrawn. Tin is turned back over head of nails; impossible for nails to drop out.

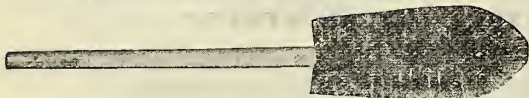
1,000 in a package. Price, 85c. per thousand.

BRUSHES.

We are in a position to furnish the best kind of brushes for dairy use, and recommend especially our line of can, separator and bottle brushes.

Bottle Brushes.....	25c. and 40c.	Separator Bowl.....	35c. and 50c.
Test Bottle.....	5c.	Separator Tube.....	8c.
Milk Can.....	60c.	Separator Cover Spouts.....	15c.
Separator.....	15c.		

SPECIAL PRICES FOR LARGE QUANTITIES.



No. 86. Black Bottle Brush, 40c.



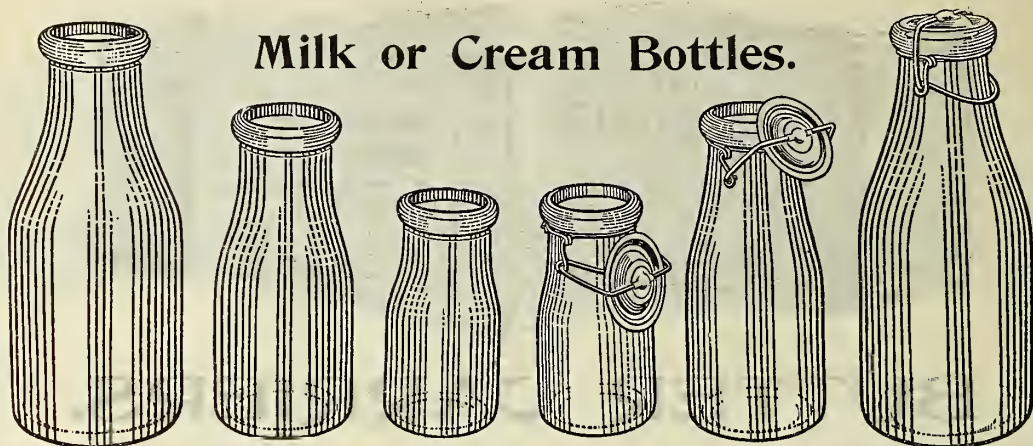
No. 70. Black Bottle Brush, 40c.



No. 60. Black Bottle Brush, 25c.



Cover Spout Brush, 15c.



Milk or Cream Bottles.

Refuse to receive milk in any other than **glass bottles**, as it is the only way by which you can get milk that is **sweet** and **pure** and that has not come in contact with the numberless street odors, flies, and many other undesirable influences.

The "**COMMON SENSE**" Bottle, capped by a strong, clean paper cap, is the **BEST**, as it can be washed absolutely **CLEAN**, and no taint is possible in milk put up in these bottles.

	Per Dozen.		Per Dozen
1-2 Pint, Common Sense,	\$.40	1-2 Pint, Lightning (tin top),	\$.50
1 Pint, Common Sense,	.45	1 Pint, Lightning "	.55
1 Quart, Common Sense,	.60	1 Quart, Lightning "	.70

Price for gross or more quoted on application.

"TESTED" GLASS WARE FOR BABCOCK TEST.

	Each.		Each.
Lactometer (Fig. 91), for testing quality of milk,	\$.60	Babcock Test Bottles (for milk), 10 to 25 %,	\$.30
Floating Dairy Thermometer (Fig. 93),	.25	Babcock Test Bottles (for cream), 25 to 50 %,	.35
Standard Floating Dairy Thermometer (Fig. 94),	1.00	Pipettes,	.25
Flange Dairy Thermometer (Fig. 92),	.25	Acid Measures,	.30



91



93



94



92



Cream Bottle,



Milk Bottle.



Acid Measure.



Pipette

MILK CANS.

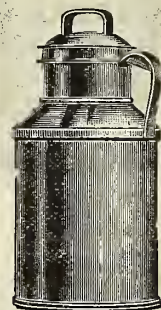
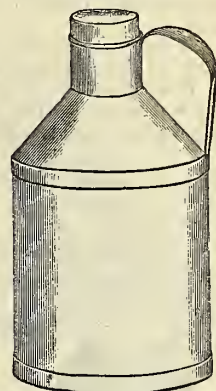
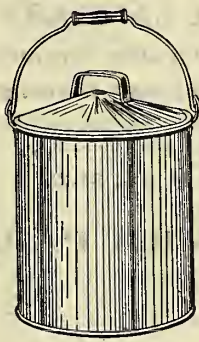
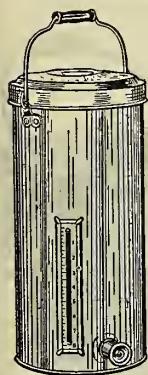
**We can furnish Tin, Wood Stopper Milk
Cans in any style, size or quantity.**

20 Quart and 40 Quart Shipping Cans.

The parts of all our shipping cans are made of steel and heavily tinned by the hand dipping process, after they are formed.

Prices furnished on application.

CREAMERY CANS.



"K. & W.",	\$1.25
Cooley,	2.25
Goss,	1.75

CREAM PAILS.

[illegible]

"Wonpeace" Milk Can.

NOT A SINGLE SEAM ANYWHERE.

An idea that will delight milk-can users. Strictly seamless in every sense of the word. The whole bottom, body, breast, neck and bowl, all out of a single sheet of steel. Easily kept absolutely clean.

Price, 40 quart size, \$4.50.

“ 20 “ “ 3.65.

CHAMPION MILK COOLER AND AERATOR.

A perfect aerator, removing all flavors arising from excessive cabbage, turnip or silo rations.

A complete deodorizer, removing the animal heat or cowy taste and all odors arising from the absorption by the milk of stable or other unpleasant gases.

A thorough cooler, reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium.

It is equally well adapted to the use of any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water.

No.	Capacity of Milk Receiver.	Size of Dairy.	Takes Care of	Price.
2.	18 quarts	10 to 25 cows	3 milkers	\$6.00
3.	34 "	25 to 50 "	5 "	6.50
4.	52 "	50 to 100 "	8 "	8.00



THE EUREKA SANITARY PAIL,

With Removable Strainer.

Strains rapidly and thoroughly.

Sediment does not collect on the strainer, but passes beyond and is removed when the strainer is taken out.

Price, 14 qt., \$1.25.



PLAIN MILK PAILS.

1X 10 qt., \$.25	2X 10 qt., \$.30	3X 10 qt., \$.35
1X 12 " .30	2X 12 " .35	3X 12 " .45
1X 14 " .35	2X 14 " .40	3X 14 " .50



THE NEW DOVER SANITARY MILK PAIL.

THE BEST MILKING PAIL ON THE MARKET.

Note the guard, which absolutely prevents dirt from falling from the rounded breast into the pail.

The body is in one piece, only has one seam, and the pail is made of extra heavy high grade charcoal tin plates. Every seam and crevice is smoothly soldered inside and outside, preventing dirt collection and making cleaning easy.

Many dairymen do not like to pour from a pail on the side which they milk in, on account of more or less dirt and dust which is apt to be on that side of the pail. Always pour from the Dover pail in the following manner: Have the pail opening face you; grip bottom of pail under said opening and pour over the top of the breast; the guard on the breast acts as a lip.

Price, \$1.25.

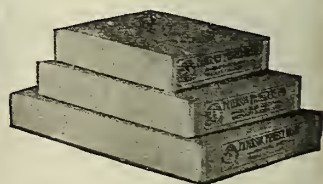


Pioneer Brand Parchment Butter Paper.

Guaranteed to contain no oil, grease, paraffine or wax.

Are you getting the best price for your butter? Try wrapping it in Pioneer Butter Paper, which completely protects it from all injurious odors, preserves the delicious flavor, and prevents the prints from becoming damaged in handling.

We recommend—before you wrap butter, wet parchment thoroughly in clean, pure water, add salt if you prefer. It means better wrapping; it means better protection.

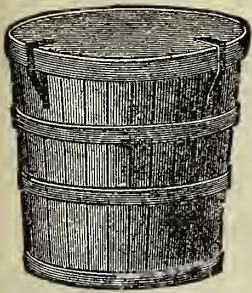


PRINTED PAPER.—To comply with the law requiring the weight of the butter to be marked on the container. Sold in packages of 1,000 sheets only.

Price, package, 7 x 9 (1-2 pound size), 90c.; 9 x 12 (1 pound size), \$1.30.

Price, plain paper, 15c. per pound.

Write for quotations for large quantities and for printing special designs.



Butter Tubs.

We are in a position to furnish superior spruce butter tubs, in any quantity desired. Tubs are kept in stock in 10, 20, 30 and 50 pound sizes, and shipments can be promptly made. Special prices for large quantities.

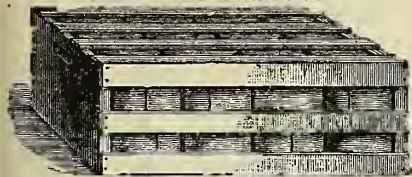
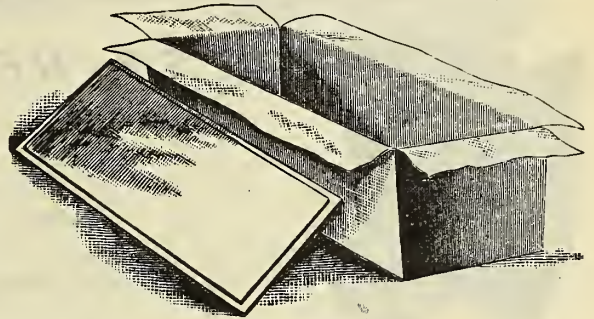
Write for quotations.

Improved Oblong Butter Box.

With Parchment Lining.

The box holds five pounds of packed butter, is nearly brick shaped, flaring so the butter will turn out, and is in the best possible shape to cut up for the table in square-like prints, and free from waste.

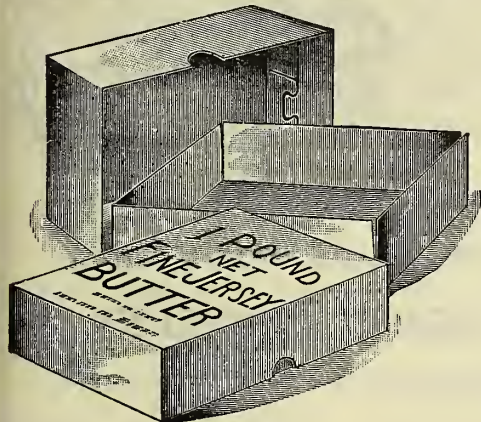
Write for prices.



ROUND BUTTER BOX.

This is a round, firm, clean and cheap package in which to send butter to market. The wood from which it is made is thoroughly steamed before working, which makes it as nearly odorless and tasteless as possible.

Write for prices.



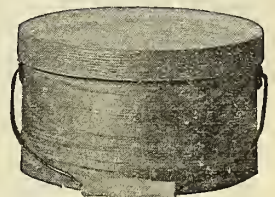
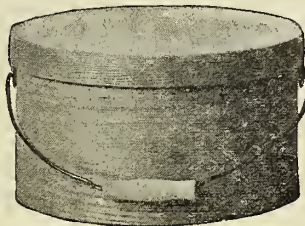
ONE POUND

Folding Paraffined Paper Butter Boxes.

ODORLESS AND TASTELESS.

Write for quotations.

OAK BAIL BOXES.



	Price.
Large	40c.
Small	30c.

Butter Ladles, 15c.

Plain Butter Spades, 10c.

Creased Butter Spades, 10c.



SMALL'S CALF FEEDER.

This is a device by which the calf may be fed away from its dam, and with any mixture of milk (or whatever else is healthful and desirable), with convenience and in the natural way with that admixture of saliva which does not occur when calves drink from a pail.

Price, \$2.50. Extra Nipples, 25c. each.

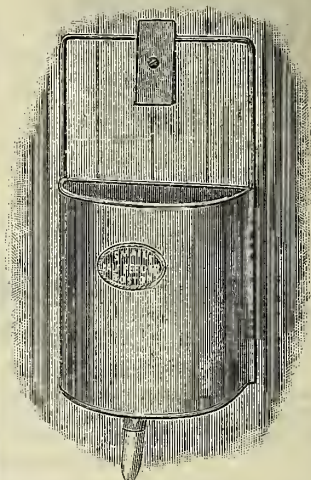


RICE'S WEANER.

For preventing calves and cows sucking themselves or each other.

PRICE.

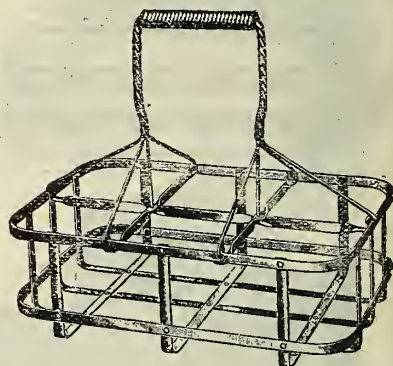
No. 1, for calves, 30c.,
No. 2, for heifers, 50c.,
No. 3, for cows, 75c., } postpaid.



WIRE

MILK BOTTLE CARRIERS.

2 quarts, round wire,	.	.	.	.	.	.	\$ .50
4 quarts, round wire,	.	.	.	.	.	.	.55
6 quarts, round wire,	.	.	.	.	.	.	.65
8 quarts, round wire,	.	.	.	.	.	.	.75
6 quarts, flat wire,	.	.	.	.	.	.	.85
8 quarts, flat wire,	.	.	.	.	.	.	1.00



HAM'S TUBULAR

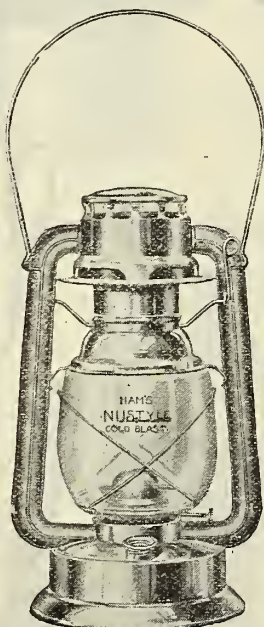
"SEARCH LIGHT" LANTERNS.

No. 2 Burner, one-inch Wick, finished in Blue Japan.

Just the lamp you want where a strong light is required and to be spread over a large space, as in creameries, stables, saw and planing mills, warehouses, packing houses, workshops, picnic grounds, lawns, summer resorts, etc. The lamp throws a brilliant and steady light, and will burn as well out of doors as inside, without smoking or flickering, and is not affected by the wind or strong drafts.

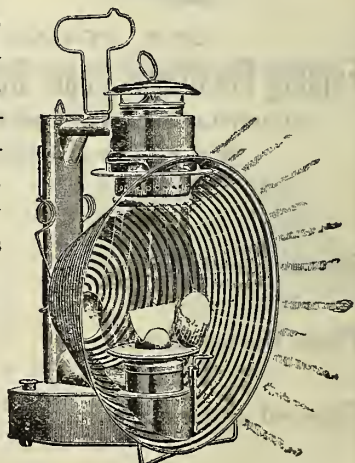
We have in stock a full line of all the leading lanterns. Prices furnished on application.

Neater, Trimmer, Better.
More convenient than any tubular lantern on the market.



"NUSTYLE" LANTERN.

Can't spill oil, can't blow out.



"SEARCH LIGHT" LANTERN.

OX MUZZLES.



Small, per pair, 30c.
Large, " " 40c.

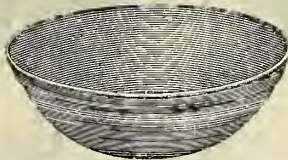
COW BELLS.



No. 1, 45c.
No. 2, 35c.
No. 3, 30c.
No. 4, 25c.

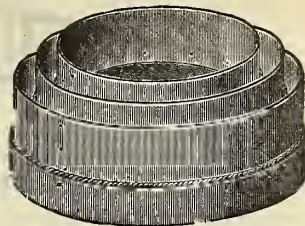
WOOD BOWLS.

OILED.



11 inch	10c.
13 "	20c.
15 "	30c.
17 "	55c.
19 "	85c.
21 "	\$1.00

SIEVES.



Wire Sieves, 12 inches.....25c.
" " 13 "30c.
" " 14 "35c.

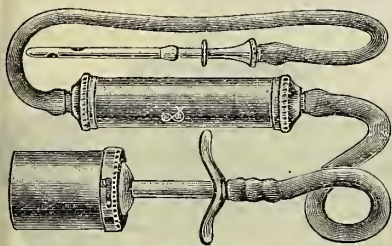
ALL WOOD, MILK OR CREAM BOTTLE CASES.

The case is designed to put the bottle in when filled with milk for delivery. The rack inside is removable for the purpose of cleaning.

Quart case, holding 12 quart bottles,	-	-	-	-	50 cts.
Pint " " 12 pint "	-	-	-	-	45 cts.

Wood, with heavy wire bottom and partitions (not removable).

Quart case, holding 12 quart bottles,	-	-	-	-	\$1.00
Pint " " 20 pint "	-	.	-	-	1.00



THE PILLING MILK FEVER OUTFIT FOR STERILIZED AIR TREATMENT.

This Treatment Has Cured 97 per cent. of all Cases Treated.

Recommended by the Bureau of Animal Industry of the United States Government Department of Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton, and full directions.

Price, postpaid, \$3.00.

PILLING LEAD PROBE, WITH FULL DIRECTIONS.

For the treatment of obstructed teats, also for enlarging the opening.

Price, postpaid, 25 cents.



PILLING TEAT EXPANDER.

For Hard Milking Cows.

Price, postpaid, . . . 50 cents.

PILLING HARD RUBBER TEAT PLUG.

Especially designed for two purposes: First, to prevent dropping of milk in cows where there is relaxation of the little muscle at the end of the teat and consequent leakage of milk; and secondly, to dilate the canal of the teat above the muscle in cases where hard milking is due to contraction of this part of the canal.

Price, postpaid, 50 cents.



THE "BOSTON" ASEPTIC MILKING TUBE.



For drawing milk from cows with sore or obstructed teats. Made from white metal, in 2½, 3, 3½ and 4 inch lengths, heavily plated with pure silver, and warranted equal to solid silver ones in every respect, at about one-fourth the cost.

Price, postpaid, 25 cents.

KOW-KURE

MAKES COWS PROLIFIC

Don't sell your barren cow to the butcher. She can be made productive and profitable by the use of KOW-KURE, the great cow remedy. Cow owners by the thousands have doubled the value of their cows by making them prolific breeders.

KOW-KURE is a medicine for cows only, and is a positive cure for all ailments peculiar to cows—ABORTION, SCOURS, MILK FEVER, LOST APPETITE and other affections that make cows sickly and unprofitable. It will keep well cows in the best of health and prevent disease. Healthy cows produce more and better milk and require less care. Send today for our free book, "More Money from Your Cows." It gives a world of valuable information that every farmer and dairyman ought to have.

DAIRY ASSOCIATION CO., MFRS.

Lyndonville, Vt., U. S. A.

Price, Kow Kure, 50c. and \$1.00 per can.



GRANGE GARGET REMEDY.

Positively cures garget without in any way injuring the cow.

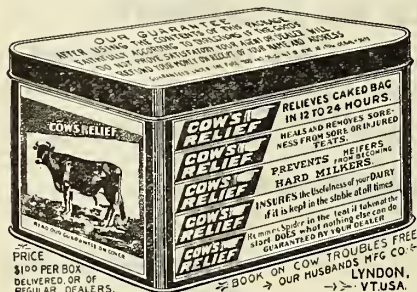
[Price, 50c. per can.]

BAG BALM.

For sore teats, caked udder and inflammation.

Price, 50c. per can.

COW'S RELIEF.



A standard remedy among dairymen. A sure relief for caked udder, and will keep bag and teats free from soreness.

PRICE:

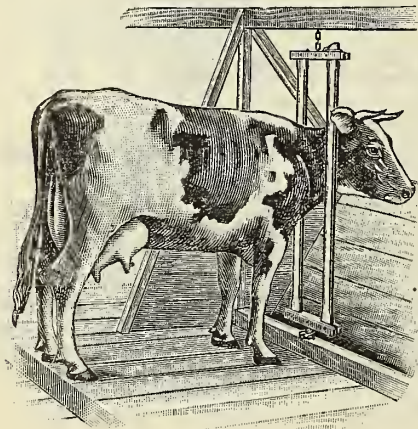
50c. and \$1.00 per can.



STANCHION BASIN.

An examination of this cut shows its advantages; can be emptied and cleaned in three minutes, without fouling supply pipe; is easily kept antiseptic, and can be quickly connected, being screwed on to the upright pipe inside of basin.

Price on application.



Robertson's Patent Chain Hanging Stanchions.

Practical, Safe and Durable, and Afford Comfort to the Animal.

Made with either rigid or adjustable neckspace.

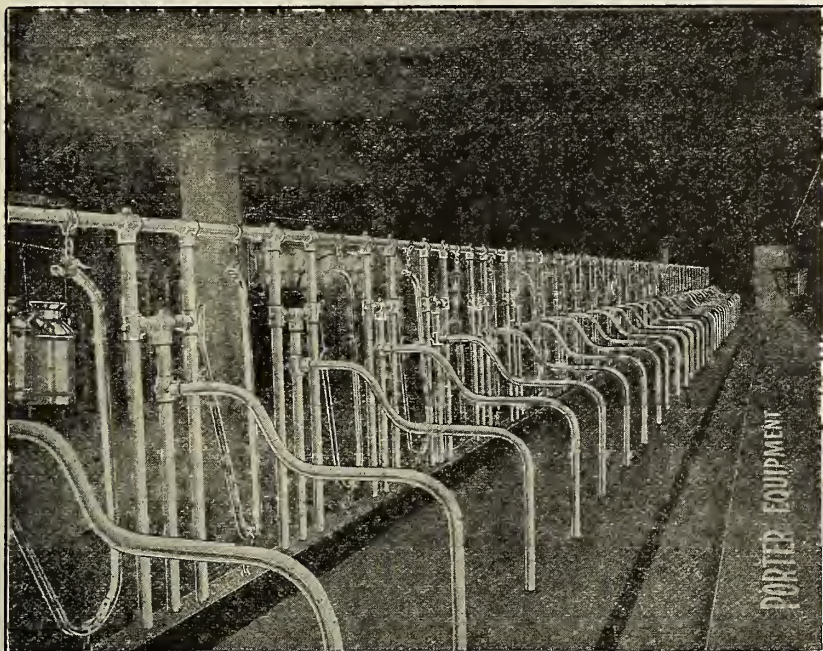
A pleased customer is the best possible endorsement that an article can have. These stanchions are in use by thousands of the most successful dairymen and farmers all over the country, who have had practical experience and know that these stanchions are not an experiment.

Write for price list.

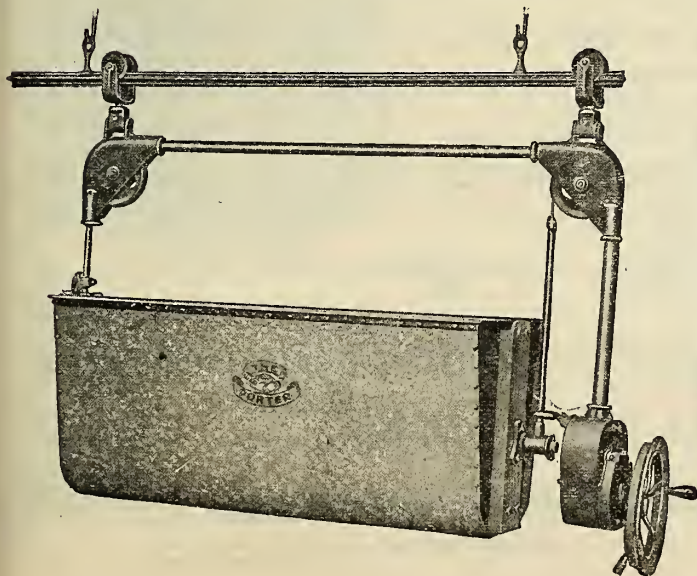
PORTER BARN EQUIPMENT.

The Cleanliness, Convenience and Comfort of Porter Equipment will Swell
Your Dairy Dividends.

The better care you give your cows, the better they will pay you. Stable them in light, clean, comfortable, sanitary quarters and they'll require less feed, keep freer from disease, produce more milk, with a higher percentage of butter fat, and your milk and butter will bring top-notch prices. These are **facts** proved over and over again in the experience of successful dairymen who are using Porter Litter Carriers, Feed Carriers, Stalls and Stanchions. Porter equipment in your barn will mean a big boost for extra profits, for it's built with practical common sense understanding of the care the dairy cow needs for best results. It keeps the stalls clean, prevents waste of feed and manure—gives your cows the best chance to show what they can earn for you.



Expert Advice on Barn Plans and Equipment, Free for the Asking.

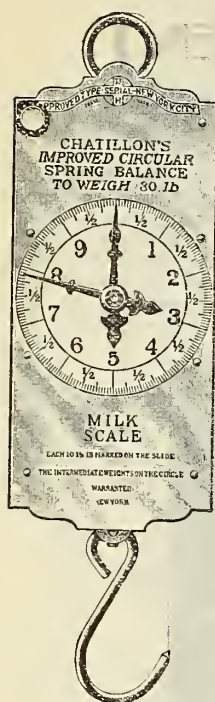


PORTER LITTER CARRIER.

With it one man can do the work of three, and do it better and easier. It is the handiest and most satisfactory litter carrier on the market. The gear and pinion hoist, with wire cable, gives the biggest lift for the power, and the quickest action. The hopper is made of heavy galvanized steel with capacity of 12 bushels; is held automatically at any height, and is provided with a dumping device, which is tipped at will by the man in the stable. Has one piece steel track, carrier wheels are roller bearing, and are swiveled so carrier will go around the sharpest curves safely. No end motion, no joggling, liquid litter will not slop over—the only litter carrier with a stationary arm.

The Porter Carrier is also made with **chain hoist**, if desired.

Price on application.

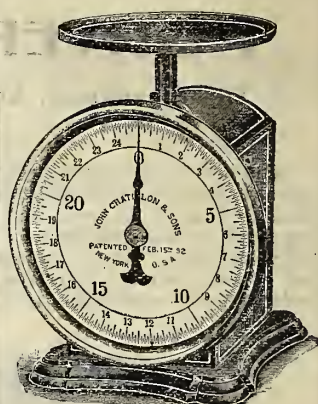


IMPROVED CIRCULAR SPRING BALANCE MILK SCALES.

USED BY MOST DAIRYMEN.

Weighing up to 60 pounds. Price, \$3.00.

" " " 30 " " 2.50.



FAVORITE FAMILY SCALES.

Dial and Glass Sash, Handsomely Ornamented.

The pointer may be adjusted to balance the weight of a scoop, etc., by turning the thumb-screw on top of scale.

PRICE.

No. 047. Complete with scoop, white dial,	.	.	.	\$2.25
No. 147. " " " tin dial,	.	.	.	2.00
No. 146. Without scoop, tin dial,	.	.	.	1.50

WELLS & RICHARDSON CO.'S Dandelion Brand Butter Color.

PURELY VEGETABLE.

Will not become rancid.

Will not color the buttermilk.

Gives a bright June color.

Always gives satisfaction.

Price List.

Small size, 4 ozs., to color about	500 pounds	\$.25
Medium size, 10 " " "	1250 pounds	.50
Large size, 24 " " "	2800 pounds	1.00
Cans, 1 gallon,		2.50



HANSEN'S DANISH BUTTER COLOR.

The Most Uniform, the Purest and the Most Natural Shade.

Made with the finest imported vegetable oil.

To butter makers desiring a pure, vegetable butter color, we do not hesitate to recommend Hansen's Danish as unquestionably the best in every respect.

Its high quality has never been approached by any competing preparations, and many shippers of the finest butter demand its exclusive use by their butter makers.

PRICE LIST.

Small size, to color about	500 pounds,	\$.25
Medium size, " "	1250 pounds,	.50
Large size, " "	2800 pounds,	1.00
Cans, 1 gallon,		2.50

HANSEN'S DANISH RENNET TABLETS.

FOR CHEESE MAKING.

Always of the same strength, entirely preservable, separates the cheese matter completely, and gives the greatest quantity possible.

Price, can of 200 tablets, \$2.50.

HANSEN'S DANISH DRY LACTIC FERMENT.

FOR RIPENING CREAM AND MILK.

PRICE LIST.

LARGE PACKAGE.—Single package, by mail,	\$2.25
Three packages, by mail,	6.00
SMALL PACKAGE.—Single package, by mail,	1.00
Three packages, by mail,	2.25

SPECIAL ATTENTION IS CALLED TO
OUR STOCK OF

..Insecticides..

Atomizers, Sprayers and Spray Pumps

INCLUDING

Bug Death, Dry Arsenate of Lead, Paste Arsenate of Lead, Paris Green, Lime-Sulphur, Tuber-Tonic, Pyrox, Aphine, "Black Leaf 40", Bordeaux Mixture, Hellebore, Tree Tangle-foot, Kerosene Emulsion, "Nico-Fume" Liquid, Cut Worm Killer, Tobacco Dust, Weed Killer, Sheep Dip, and Cattle Oil.

New Misty, Midget, Rapid, Easy and Acme Atomizers.

Champion and Acme Powder Guns, "Auto Spray", "Kant Klog" and Perfection Sprayers, Myers, Ideal, Eureka, "Pomona", "Fruitall", New Monarch, "Will Spray", Little Giant No. 28, Deyo and "Iron Age" Hand and Power Spray Pumps.

— ALSO —

Spray Pump Fittings, including Jasmin Controller, Nozzles, Steel and Bamboo Extensions, Hose, Couplings, Agitators, Valves, Rods, Bushings, Packings, etc.

SEE OTHER SIDE

We Ask Your Careful Examination of the Following Complete and Up-to-Date Stock of

Walking Plows, Sulkly Plows, Disc Harrows, Spring Tooth Harrows, Spike Tooth Harrows, Hand Cultivators, Riding Cultivators, Wheel Hoes, Seed Drills, Seed Sowers, Fertilizer Drills, Fertilizer Sowers, Grain Drills, Weeders, Potato Hoes, Hand Garden Cultivators, Manure Spreaders, Land Rollers, Corn Planters, Potato Planters, Mowers, Rakes, Tedders, Corn Binders, Grain Binders, Potato Diggers, Grain and Bean Threshers, Hay Presses, Gasoline Engines, Saw Machines, Feed Mills, Corn Shellers, Ensilage Cutters, Feed Cutters, Root Cutters, Fan Mills, Cider Mills, etc., also

“EXTRAS”

FOR

Cultivators, Seeders, Harrows, Plows, Grain and Fertilizer Drills, Spreaders, Planters, Rollers, Mowers, Rakes, Tedders, Diggers, Binders, Hay Presses, Ensilage Cutters, Feed Mills, Threshers, Gasoline Engines, etc.

CAREFUL ATTENTION GIVEN ALL ORDERS FOR MACHINE “EXTRAS”.

IN ORDERING “EXTRAS”, PLEASE CAREFULLY SPECIFY MAKE OF MACHINE, AND NUMBER OR LETTER OF PART WANTED.

☞ This line we intend to have in stock at all times, and we solicit your valued orders which we will endeavor to ship promptly.

WRITE FOR PRICES

"BUG DEATH."

The multiplication of insect pests and increase of fungous diseases place the question of spraying outside the line of debate. *It must be resorted to. It is the only salvation of the fruit, vegetable or crop producer. Spraying is a necessity for successful cropping.* There is one insecticide on the market, absolutely harmless to animal life, which will kill the bugs and insects, protect the life of the leaves and plants, increase the yield, insure highest quality and promote the vigor of the plant or tree.

Bug Death will do all this, for it is the only insecticide on the market which feeds and strengthens the leaves while destroying the pests which otherwise would destroy the crop, killing the potato, squash and cucumber bug, currant and tomato worm, and all other plant and vine-eating pests.



Pat. March 16 and Nov. 9, 1897.

DIRECTIONS FOR SPRAYING ONE ACRE OF POTATOES.

Fill a pail holding about 12 quarts, half full of water. Stir 15 to 25 pounds of Bug Death into this water. Fill sprayer tank nearly full with clear water, then pour Bug Death from bucket into tank and start machine at once, being sure that the agitator is working properly.

DIRECTIONS FOR SPRAYING ONE ACRE OF POTATOES WITH BUG DEATH AND BORDEAUX MIXTURE:

Dissolve 6 pounds copper sulphate (blue vitriol) in 6 gallons of water. Slack 6 pounds lump lime, slowly adding water as it slacks, being careful not to burn the lime. When thoroughly slacked strain it to remove any lumps before it goes into sprayer. When ready to spray, fill tank two-thirds full of clear water and add the 6 gallons of blue vitriol water. Next put in 15 to 25 pounds Bug Death (first mix Bug Death in pail of water, same as under directions for using Bug Death alone). Fill tank almost full of clear water; lastly put in the lime water. Stir well and start machine at once, being sure that agitator is working properly.

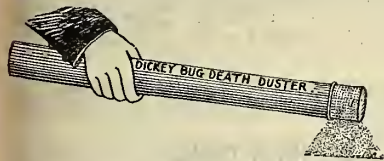
The above solution, if properly applied, will prevent blight on potatoes, tomatoes, etc.

IF USED DRY

apply with Dickey Bug Death Duster or Acre-an Hour Sifter at the rate of 15 to 25 pounds per acre, per application. Dust plant evenly and thoroughly. The more freely used the better the plant will thrive, as the increased yield and improved quality more than pays the expense. A perfectly sure, safe, effective insecticide.

1 pound package (is provided with a sifter top, making it easy to distribute contents on to plants or vines)..... \$.15
3 pound package35

5 pound package..... \$.50
12 1-2 pound package..... 1.00
100 pound keg..... 6.50



DICKEY BUG DEATH DUSTER.

Price, . - - - 25c.

Acre-an-Hour Sifter.

Price, - - - 60c.



SWIFT'S ARSENATE OF LEAD.

One of the best known insecticides for leaf-eating insects, such as elm leaf beetle, gypsy and brown-tail moths, canker worm, codling moth, tent caterpillar and potato bug, as it adheres to the foliage for a long time.

On large trees, the best results are obtained by a nozzle giving a fine, mist-like spray. Spray until the leaves commence to drip, and then stop. Select a warm, dry day, so that the insecticide will have a chance to dry on the foliage.

Put up in the following sizes: 1 lb. pkg., 2 lb. pkg., 5 lb. pkg., 10 lb. keg, 25 lb. keg, 50 lb. keg, 100 lb. keg.

Price, all sizes, upon application.

BETTER CROPS AND LARGER QUANTITIES

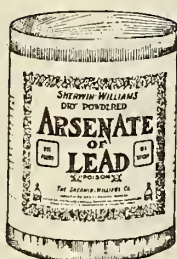
CAN BE HAD BY USING

SHERWIN-WILLIAMS

INSECTICIDES

The Sherwin-Williams Co. has long been known to agriculturists and horticulturists as manufacturers of the best quality of insecticides on the market to-day. Our goods are recognized as standards everywhere. When you are ready to spray, see us. We have spraying material for every use.

S-W DRY ARSENATE OF LEAD.



Sherwin-Williams Dry Powdered Arsenate of Lead represents the highest development of arsenical poisons for fruit tree spraying. It insures maximum effectiveness at minimum expense. S-W Arsenate of Lead is in such a finely divided condition and such a fluffy nature that it goes into suspension very quickly with no difficulty and no waste of time. It contains from 31 to 33% arsenic oxide thoroughly in combination with the lead. This means that it has a maximum

killing power and speedy action on all leaf-eating insects. One pound or one and one-half pounds of S-W Arsenate of Lead to 50 gallons of water will control eating insects.

Put up in the following sizes: 1 lb. pkg., 5 lb. pkg., 10 lb. pkg., 25 lb. keg, 50 lb. keg, 100 lb. keg.

S-W PARIS GREEN.



S-W Paris Green has been on the market for many years and is known for its effectiveness, safety, and economy as well. It contains the maximum amount of arsenic in combination with copper. It also has a minimum amount of the combined arsenic which helps to kill the insects quicker than without its addition. It will not blight the foliage but protects it. About 4 to 6 ounces of S-W Paris Green is used to about 50 gallons of water.

Put up in the following sizes: 1-2 lb. pkg., 1 lb. pkg.

S-W DRY POWDERED FUNGI-BORDO.



of making.

It can be used at all times with Arsenate of Lead, Paris Green or other arsenical poisons, and for any purpose for which Bordeaux Mixture is ordinarily used.

Put up in the following sizes: 1 lb. pkg., 5 lb. pkg., 10 lb. pkg., 25 lb. keg, 50 lb. keg.

S-W LIME-SULFUR SOLUTION.

S-W Lime-Sulfur contains the greatest amount of sulfur that can be brought into a solution in sulphide form, and is therefore the strongest solution of its kind that can be made. It is clear and will not clog the spray pump while spraying. When reduced with eight parts of water, it is effective against San Jose scale and other insects of this nature. It is used in a weaker solution combined with Arsenate of Lead for a summer spray, and will control fungous diseases, as bitter rot, apple scab, etc.

Put up in the following sizes: 1 gal. can, 5 gal. can, 1-2 bbl., bbl.



S-W PRUNING COMPOUND.

S-W Pruning Compound is an oil paint made especially for this work. It dries on the cut with a rubbery, elastic film.

It is made from pure linseed oil and other ingredients which have special preservative qualities and make it more adaptable than tar or white lead. S-W Pruning Compound should be applied with a flat brush.

Put up in the following sizes: 1 qt. can, 1 gal. can.



S-W TUBER-TONIC.

THE COMBINATION POTATO SPRAY.

S-W Tuber-tonic is a combination potato spray and is more efficient than Paris Green spray, which has for so long been recognized as a potato spray for killing potato bugs, beetles, etc.

Tuber-tonic is a combination spray having the desirable quick-killing properties of Paris Green, the adhesiveness of Arsenate of Lead and the fungus preventive qualities of Bordeaux Mixture, and is absolutely safe to use on any foliage without injury to the foliage.

For best results use from 1 to 2 pounds of "Dr. Tuber-tonic" to the 50 gallons of water. This material is put up in dry powdered form, is very finely divided and is very easy to bring into solution.

Put up in the following sizes: 1 lb. pkg., 5 lb. pkg., 10 lb. pkg., 25 lb. keg, 100 lb. keg.



Prices quoted on complete line on application.

"BLACK LEAF 40."

TO DESTROY APHIS, THRIPS, ETC.,

WITHOUT INJURY TO FOLIAGE, SPRAY WITH

"BLACK LEAF 40," SULPHATE OF NICOTINE.

"Black Leaf 40" is highly recommended by experiment stations and spraying experts throughout the entire United States. Owing to the large dilution, neither foliage nor fruit is stained. Also "Black Leaf 40" is perfectly soluble in water—no clogging of nozzles.

Price: 10 lb. can, \$10.75 (makes 1,600 to 2,000 gallons for spraying pear thrips and hop louse, with addition of 2% distillate oil emulsion; or 1,000 gallons for spraying green and wooly aphis, with addition of three or four pounds of any good laundry soap to each 100 gallons of water); **2 lb. can, \$2.50; 1-2 lb. can, 75 cents.**

"NICO-FUME" (Liquid).

A highly refined tobacco extract containing 40% "free" nicotine. For **spraying**, 1½ teaspoonfuls to the gallon of water is effective against green aphis and thrips; and for **vaporizing**, 1½ oz. per 2,000 cubic feet furnishes a strong fumigation. "Nico-Fume" thus has the advantage of being used **both** for spraying and for fumigating.

Price, 1 lb. can, \$1.50; 1-4 lb. can, 50 cents.

APHINE—The Insecticide that Kills Plant Lice of Every Species.

The Recognized Standard Insecticide.

Not a cure-all, but a specific remedy for all sap sucking insects infesting plant life, such as green, black, or white fly, thrips, red spider, mealy bug and soft scales.

Price, 1-4 pint, 25c.; 1-2 pint, 40c.; 1 pint, 65c.; 1 quart, \$1.00; 1 gallon, \$2.50.

Sterlingworth Whale (Fish) Oil Soap and Tobacco



Is a compound of fish oils, the efficiency of which is greatly increased by the addition of tobacco extractive matter. Is a most effective, reliable and cheap remedy for destroying San Jose scale, oyster shell scale, plant lice, and all sucking insects on

trees, shrubs, plants, vines, rose bushes, etc. It is put up in tightly sealed boxes, which conserves the strength of the soap almost indefinitely. Directions for use on every package.

Price, 1 lb. box, 15 cents.

STERLINGWORTH WEED KILLER.



Sterlingworth Weed Killer is a most satisfactory and powerful weed killer compounded especially for use on walks, drives, tennis courts, golf links, etc. It is a dry powder to be dissolved in water. When applied to vegetation it completely destroys all kinds of weeds, grass and other objectionable vegetable growths. It

may be applied with an ordinary watering can. One gallon covers three to four square yards.

Price, 1 lb. package (makes 15 gals.), 50c.

Sulphur, Powdered.—Price, 8c. per lb.; 10 lb. pkg., 60c.

Hellebore.—Price, ½ lb. pkg., 20c.; 1 lb. pkg., 35c.

Tobacco Dust.—Price, 10c. per lb.; 5 lb. pkg., 30c.

Tobacco Stems.—Price, \$1.75 per 100 lbs.

TREE TANGLEFOOT.

A safeguard for trees, shrubs, etc., against the gypsy moth, canker worm, and all climbing insect pests. It should be applied before the foliage appears, a continuous band two inches in width being put around the trunk of the trees three or four feet from the ground. It is easily applied with a small wooden paddle. One pound will make a band seven to nine feet long. Perfectly harmless to the trunk (unless where the trees are very young, and the bark thin and tender, in which case bind manila paper around the trunk before applying tanglefoot) and remains sticky during hot, cold, or wet weather.

PRICE—1 pound can, . . . \$.30
3 " " " .85

10 pound can, . . . \$2.65
20 " " " 4.80

"STERLINGWORTH" KEROSENE EMULSION.

A valuable remedy against scale, plant lice, etc.

Price: Pint can, 25c.; 1 quart can, 40c.; 1 gallon can, \$1.00.



"STERLINGWORTH" BORDEAUX MIXTURE.

Bordeaux Mixture is a preventive of Potato Blight, Potato Rot, Mildew, Leaf Blight of Shrubs and Fruit Trees, and, in fact, for all fungoid diseases. Apply as a fine spray to all parts of the plants liable to be affected.

One gallon makes fifty by the addition of cold water.

Price: qt., 40 cts.; gal., \$1.00; in five-gal. cans, 80 cts. per gal.; in barrels of about fifty gals., 50 cts. per gal.

BOWKER'S PYROX.

One of the best and safest all-round sprays. Kills all leaf-eating insects, prevents blight and all fungous troubles, without injury to fruit or foliage. Equally good on fruit trees, potatoes, garden vegetables and shrubbery. It "sticks like paint", and rain "won't wash it off".

1 lb. (glass jar),	\$.25
5 lbs. (stone jar),	1.00
10 lbs. (stone jar),	1.75
25 lbs. (stone jar),	4.00
50 lbs. (keg),	7.50
100 lbs. (keg),	13.50
300 lbs. (keg),	38.00
500 lbs. (bbl.),	60.00



"STERLINGWORTH" CUTWORM KILLER.



A preparation which is quick and sure in effect on worms and non-poisonous to animals. Dead cutworms may be seen wherever there are cutworms and Sterlingworth Cutworm Killer has been used.

To protect plants in hills, sprinkle a small quantity of Killer around the plant. When in rows, sprinkle both sides of row.

One pound is sufficient for 175 plants when in hills, and 150 linear feet plants when in rows.

"STERLINGWORTH" SHEEP DIP

A highly concentrated, non-poisonous liquid for sheep-washing purposes—killing ticks and lice, curing scab and promoting the growth of wool and flesh. Used also for cattle, horses, pigs, fowls, dogs, etc. A protector of sown seed from birds, slugs, and "smut". Does not require heating nor any preparation—simply add cold water and it is ready for use. Easily applied and always effective.



1 lb. sprinkler-top boxes, 25c.

Price: 1 qt. can, 50c.; 2 qt. can, 75c.; per gal., \$1.40.

We stocked this brand last year to satisfy inquiries from those who had used it and insisted on having it. After selling several hundred cans and watching the results from its use **we know why those who had used it insisted on having it and nothing else.** It is called "Guaranteed Cattle Oil", because every can is sold under a positive guarantee (printed on the can) to give satisfaction or money refunded. It is ready for use; no mixing necessary. Does not gum the coat. Protects all day in ordinary weather. Flies hit by it are killed, others are kept off by the odor. Applied with a brush or hand sprayer.

GUARANTEED CATTLE OIL



Price—1 quart, 25c.; 1 gallon, 75c.



A most efficient spray to protect cattle and horses from flies. Antiseptic and non-poisonous. Used in hen house to kill lice.

More comfort means more eggs and milk and increased profit.

Lice, vermin and flies are the bane of the poultryman, stock raiser and farmer. Some wonder why their fowls and stock droop and die, but do not recognize the fact that they are being worried to death by these pests. Many who realize do not know that **Creonoid** is the cure.

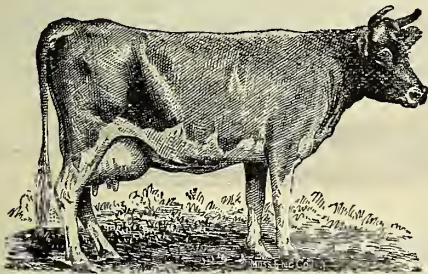
Flies breed in manure heaps and go from place to place carrying disease germs along with them. Flies are responsible for many of the epidemics that appear among people and animals. If their breeding places are regularly sprayed with **Creonoid**, they cannot breed and the number around the buildings will be greatly diminished.

Price—Gallon, \$1.00; 5 and 10 gallons, 85c. per gallon.

Half barrels, 80c. per gallon; barrels, 75c. per gallon.



EUREKA FLY KILLER.



Will protect horses and cattle from the annoyance of flies, insects and vermin of all kinds. A much greater flow of milk obtained from cows kept free from the torment of flies.

As a disinfectant it will keep animals healthy.

Applied to the walls and ceilings of stables, where there are myriads of flies, they leave instantly.

Apply with any of our atomizers or sprayers.

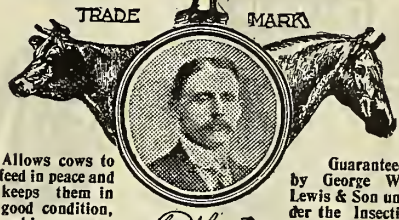
Price, per gallon, 75c.

LEWIS' LICE AND FLY DESTROYER

KILLS LICE
ON
POULTRY
WITHOUT
DIPPING
DUSTING OR
GREASING



KILLS FLIES
ON
COWS
AND KEEPS
THEM
OFF ALL
DAY



Allows cows to
feed in peace and
keeps them in
good condition,
making more
money for you.

Guaranteed
by George W.
Lewis & Son un-
der the Insecti-
cide Act of 1910.
Serial No. 719.

INCREASE THE FLOW OF MILK

By spraying your cows with **Lewis' Lice and Fly Destroyer**. Allows cows to feed in peace, making more milk and consequently more money. Keeps cows in good condition and saves many times its cost in extra milk.

INCREASE THE EGG PRODUCTION

By using **Lewis' Lice and Fly Destroyer**. Keeps your poultry houses and barns free from all lice, mites, flies, and insects.

Price: 1 qt., 35c.; 2 qts., 60c.; 1 gal., \$1.00.

SPRAYERS AND POWDER GUNS.

For Spraying all Insecticides on Potato Vines, Shrubs, Small Trees, House Plants, Live Stock and Poultry.

A Great Labor Saver on the Farm and in Every Garden, Barn, Greenhouse, Orchard and Hennyery.

Will apply the finest possible spray on any object desired, and exterminate any kind of insect life.



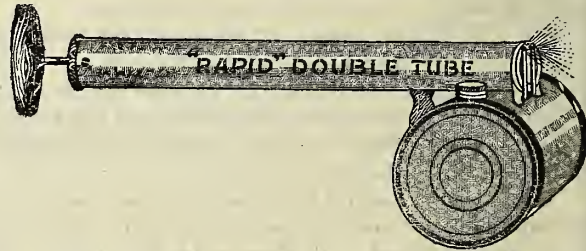
"New Misty," Tin, 40c.



A size made to fill the need for small sprayer for household requirements.

"Midget," Tin, 25c.

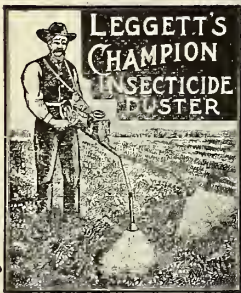
"Rapid," Double Tube,
Galvanized Iron, 50c.



THE "EASY" COMPRESSED AIR SPRAYER.

Made of heavy galvanized steel throughout, with sufficient capacity for one gallon of liquid. Has a powerful pump with which pressure can be maintained by an occasional stroke as the liquid is being discharged.

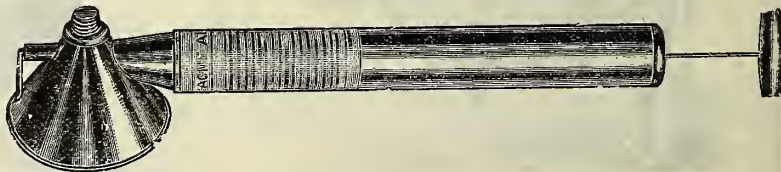
Price, \$1.75.



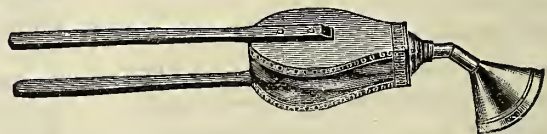
LEGGETT'S CHAMPION DRY POWDER GUN.

Will cover two rows of potatoes at once, as fast as a man walks. Adjustable to any width of row. Distributes Paris Green, hellebore, sulphur, lime, "fungioid", tobacco dust, etc.

Price, \$8.00.



Acme, Tin, 40c.
Canteen, Brass, 75c.



Acme Powder Gun, 75c.

SPRAY FITTINGS.

The effectiveness of spraying is largely dependent upon the nozzle used. In spraying for fungous diseases our "Mistry" and "Mistry Jr." nozzles, which give a fine mist, should be used. For codling moth nozzles giving a coarse spray such as our "Seneca" or "Vermorel" are recommended.

Our line of nozzles covers many styles and meets every condition of service. The "Mistry Jr.," Fig. 1501, is in the greatest demand and is very desirable for use where a fine mist is required. This nozzle is not made with a degorger, as it never clogs. It is convenient to handle, as there are no extensions to catch in the trees. It will do the work of two ordinary nozzles.

PRICES.

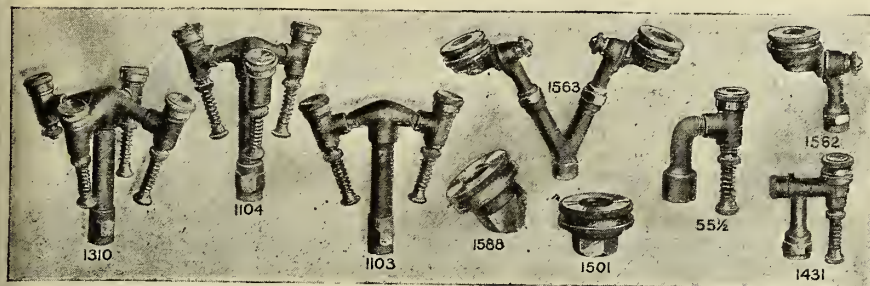
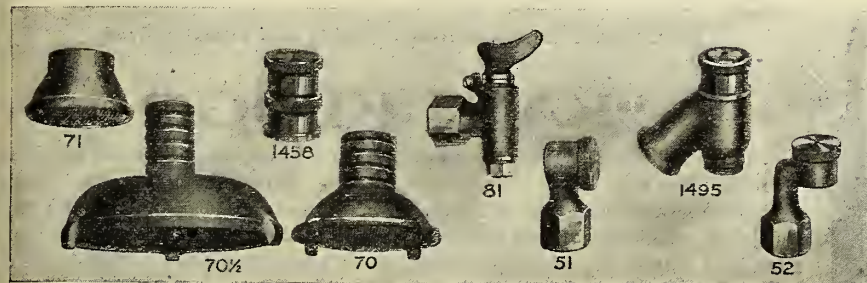
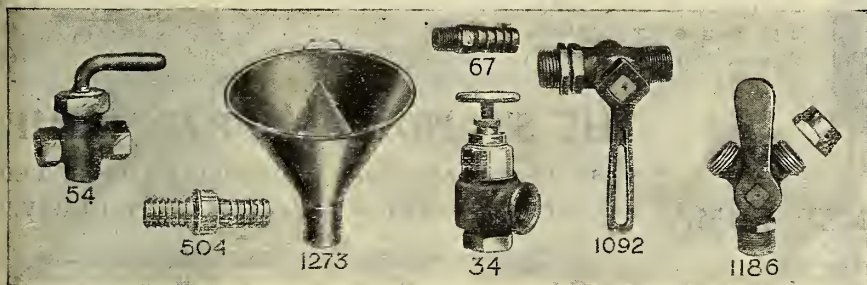


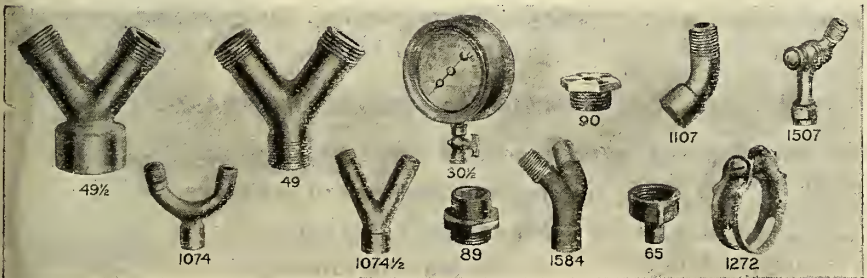
Fig. 1310,	\$2.10
" 1104,	1.65
" 1103,	1.20
" 1588,	.50
" 1562,	1.20
" 1563,	2.75
" 1501,	.50
" 55½,	.60
" 1431,	.60



" 71,	.50
" 70½,	.90
" 70,	.60
" 1458,	.25
" 81,	.60
" 51,	.25
" 1495,	.50
" 52,	.25
" 54,	.50



" 504 (male),	.25
" 504 (female),	.25
" 67 (male),	.20
" 1273,	.90
" 34,	2.75
" 1092,	.95
" 1186,	1.00
" 49½,	.50
" 49,	.50
" 1074,	.25
" 1074½,	.25
" 30½,	2.00



" 89, ½ or ¾ in.,	.25
" 89, 1 or 1½ in.,	.30
" 90,	.25
" 1584,	.30
" 1107,	.20
" 65,	.25
" 1507,	.75
" 1272, ½ or ¾ in.,	.05
" 1272, 1 in.,	.05

Figure 504 (male and female), and figure 67 (male) can be furnished in three sizes. In ordering, state if you wish to fit either ⅜, ½ or ¾-inch hose.

"PERFECTION" SPRAYER.

Built on the best lines, of high-grade material and with the idea of turning on a spray which has none of the faults and defects so common in many Knapsack sprayers heretofore on the market.

The tanks are made of heavier metal than has ever been used in sprayers of this kind, are lock seamed at the corners to convex heads of metal two guages heavier than the sides, a single seam runs lengthwise of the tank. This seam is reinforced by rivets, making the tank practically unbreakable. The pump is $1\frac{1}{4}$ inch seamless brass tubing with a brass valve, and is sealed into the top of the tank with heavy threads, following the construction used in the best makes of fire extinguishers. The pump rod is 5-16 inch and is fitted with leather and special metal expanders.

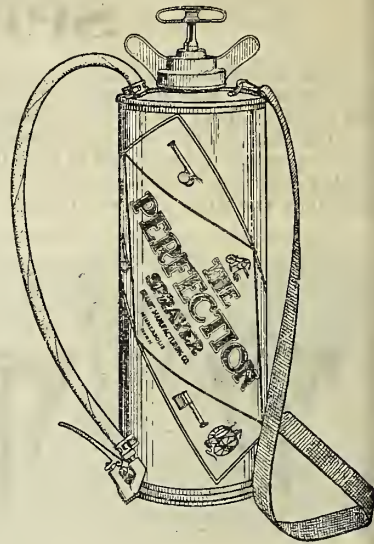
The hose is attached to the sprayer at an angle, so that it will not kink and become cracked and broken. The shoulder strap is attached with snaps and can be quickly and easily removed. The hose is $\frac{3}{8}$ -inch 5-ply cloth inserted and is equipped with automatic shut-off nozzle.

This sprayer will handle whitewash, water paints, Bordeaux mixtures, etc., perfectly.

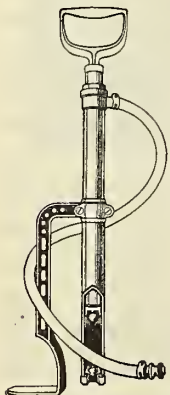
For whitewash and all heavy mixtures it is necessary to use a "W. W." cap in nozzle, which is furnished with sprayers.

These sprayers are made of galvanized steel or brass as ordered. Weight, 9 pounds empty. All sprayers tested to 60 pounds before leaving factory.

Price, galvanized steel, \$5.50; all brass, \$7.50.



"MODOCK" BUCKET PUMP.



All brass except the foot piece and handle. The cylinder, or barrel, is very large and is made of heavy seamless brass tubing. The plunger is hollow, thus forming an air chamber which insures a steady flow of liquid. The valves are bronze balls. The foot piece holds the pump firmly in the bucket or pail in just the proper position for work. The pump is equipped with 3 feet of $\frac{1}{2}$ -inch spray hose attached with clamps.

Price, \$3.75.

"KANT-KLOG."

Sprayer body is made of heavy polished brass or galvanized steel, as desired. Top and bottom are dome shaped, joined to body under heavy pressure, making a complete double seam. The body is supported and further strengthened by a heavy steel band around the bottom.

Price of Style G, with galvanized steel body, brass air pump, hose, escape valve, "Kant-Klog" nozzle, spring shut-off and carrier strap,

\$4.50

Polished Brass Body, with same attachments,

6.50

3-ft. Brass Extension,

.40

Brass Elbow,

.40

THE STANDARD SPRAY PUMP.

"THE BEST AND MOST POWERFUL LOW-PRICED SPRAYING APPARATUS ON THE MARKET TO-DAY."



For Spraying Orchards, Gardens, Vineyards, Whitewashing, Disinfecting Chicken Houses, etc.

MADE ENTIRELY OF BRASS.

With two solid brass ball valves.

No leather suckers or washers.

No castings to rust.

No leaking joints.

Nothing to get out of order.

Price on application.

SPRAY PUMPS.

No. R318B. A spray pump of a construction that is the very best in all its parts, being self-contained and ready for operation, when bolted to the barrel, and is so made that it may be attached to the **end** or the **side** of the barrel, working equally well in either position.

Has bronze ball valves and brass seats; the plunger, cylinder, and discharge pipe are all brass. The air chamber is 30 inches in length, enabling the pump to throw a powerful, uniform, constant and elastic spray. Equipped with 15 feet of best quality rubber hose, and nozzle.

Price (without barrel),

\$9.00

No. 329. Whitewash, Cold Water Painting Machine and General Purpose Sprayer, with patent double agitator, a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom, so as to set steady in operation. The cover is removable, is held securely in place by two end bolts with thumb nut, one on each side, which holds the cover tight and prevents any spilling or splashing of the liquid. Holds 7 gallons and is fitted with Bordeaux nozzle, brass ball valves, and has both jet and dasher agitator.

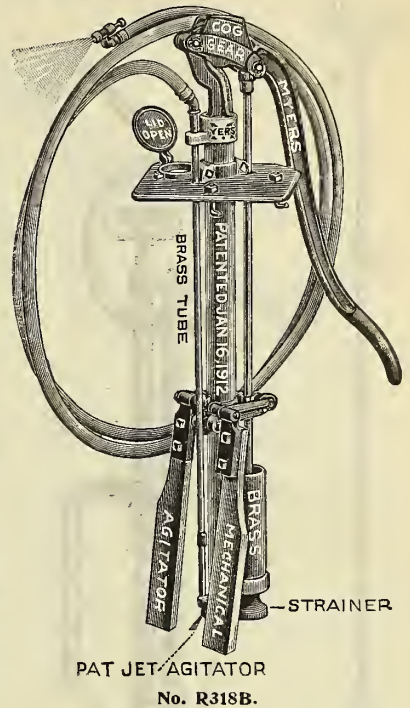
Price, \$7.50.

No. 330. Myers Knapsack Spray Pump, fitted with 5 feet of $\frac{1}{2}$ -inch hose, pipe extension and Bordeaux or graduating Vermorel spray nozzle, which can be graduated from a fine mist spray to a solid stream, or shut off entirely.

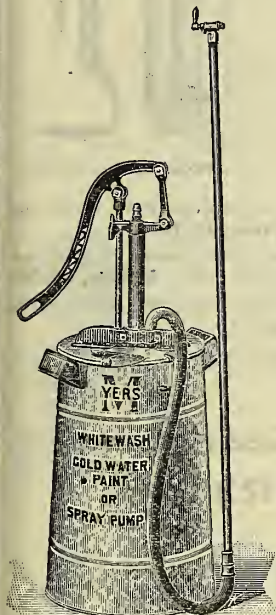
Price, \$6.50.

No. 331. Myers Perfect Knapsack Spray Pump, made with **Copper Tank**. Complete with hose, stop-cock, pipe extension and Bordeaux or graduating Vermorel nozzle.

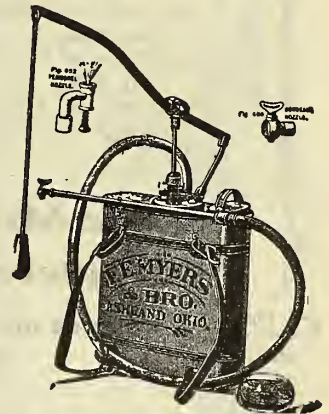
Price, \$9.50.



PAT JET AGITATOR
No. R318B.



No. 329.



Myers Knapsack Spray Pump.

BAMBOO EXTENSION.



Consists of a non-corrosive brass tube mounted inside a bamboo rod. It is strongly reinforced where the shut-off is attached to the tube to prevent breakage when dragging the hose. The tube is $\frac{1}{4}$ -inch inside diameter, and is fitted with a brass stop-cock with $\frac{1}{4}$ -inch female pipe thread. The other end of extension is fitted for brass coupling, $\frac{1}{4}$ -inch male pipe thread to fit the nozzle.

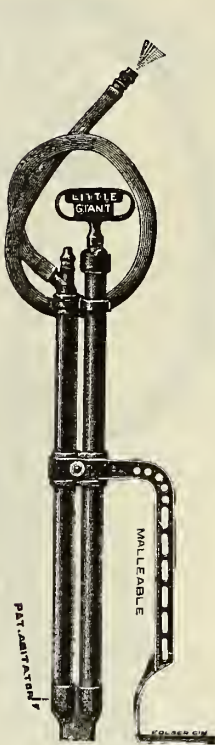
Price, 8 ft., \$2.25
" 10 " 2.35 } complete with shut-off and drip shield.

Price on other lengths given on application.

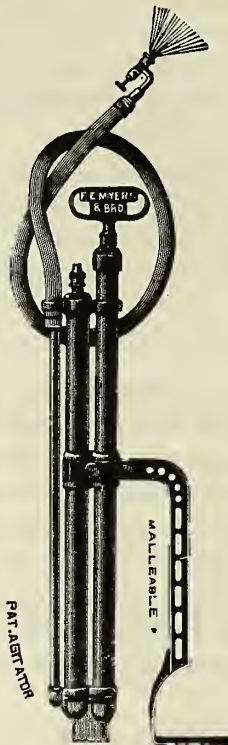
SPRAY PUMPS—Continued.



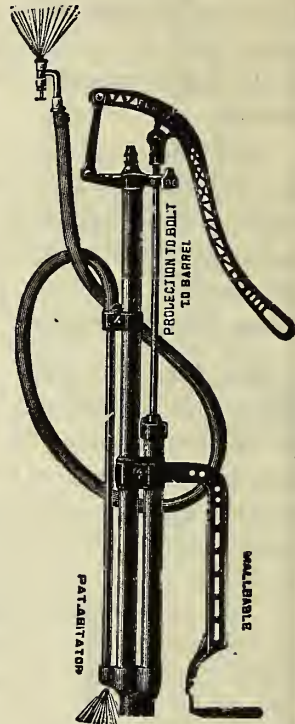
8-ft. Pipe
Extension.
40c.



No. 327 1-2.



No. 325.



No. 324.

No. 327 1-2. Myers Little Giant Brass Spray Pump, with agitator, complete with hose and Imperial combination fine and coarse spray and solid stream nozzle. **Price, \$2.75.**

No. 325. Myers Imperial Brass Spray Pump with agitator, complete with hose and graduating Vermorel fine and coarse spray and solid stream nozzle and malleable foot rest. **Price, \$3.25.**

No. 324. Myers Lever Brass Spray Pump, with agitator, complete with hose and graduating Vermorel fine and coarse spray and solid stream nozzle. **Price, \$4.00.**

Price, fitted with Bordeaux nozzle for spraying whitewash, 65c. additional.

The Myers, Double Acting Cog Gear, Complete Spray Pump Outfit, No. R316B.

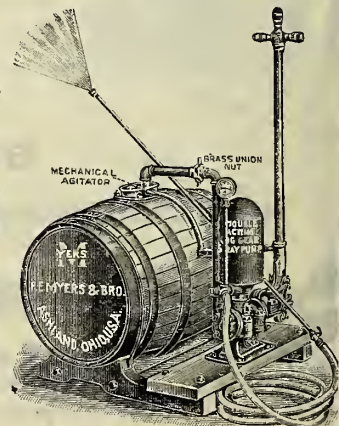
Mounted on Skids with 50 Gallon Barrel and Mechanical Agitator.

With brass valves and ground bevel brass seats, 2-inch seamless brass removable cylinder, hemp packed plunger.

SPECIAL FEATURES: Cog gear movement, increased leverage adapted for spraying under heavy pressure, mounted complete, occupying smallest possible space. Capacity sufficient for eight nozzles; well adapted for spraying potatoes.

Pump complete, 50 gallon barrel mounted on skids, with pressure gauge, one 15-foot lead, $\frac{1}{2}$ -inch, 7-ply discharge hose, one Fembro nozzle, one 8-foot pipe extension with lever shut-off and mechanical agitator.

Price on application.



THE "JASMIN" CONTROLLER.

A new way of controlling the flow of the liquid through bamboo poles, iron pipes and extensions of every sort used with spraying pumps and outfits. It attaches to end of pole in place of the old stop-cock. The hose attaches at an angle of 45 degrees and is not liable to bend and break as with the old forms of connection. The flow of liquid is controlled by a one-quarter turn of the wood handle. When using it, the operator does not have to take his eyes off of his work, but shuts off the flow of liquid instantly when spraying is finished, thus saving the cost of the controller many times over. Made of brass, fits $\frac{1}{4}$ -inch pipe.

Price, 75 cents.



Goulds Hand Force Pumps.

When large quantities of water must be pumped, as for watering cattle, etc., a pump such as the Goulds "Stock" Pump is used. This pump is made to deliver large quantities of water and is built extra strong.

When it is necessary to force the water to a higher level than the spout or to have it delivered with considerable force for washing wagons, sprinkling the garden, etc., it is necessary to use a force pump such as Goulds "Star" Force Pump.

When a constant even stream is desired, one of Goulds double-acting "Empire" Pumps is used. This pump has two cylinders and delivers water on both the up and down strokes, giving a steady flow at the spout.

For deep well service the pumps are similar to those shown except that the cylinder is lowered within 15 feet or less of the water and preferably below the water level. Heavier construction is also used when the pumps operate over very deep wells.

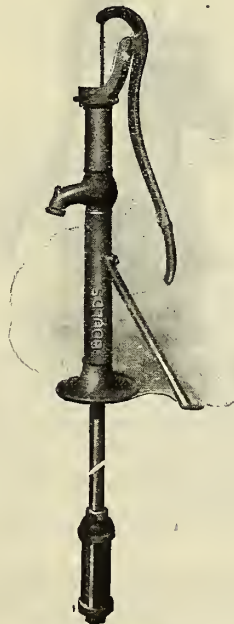
Goulds "New Alert" Double-Acting Force Pump, for forcing water into a tank. This pump will lift and force the water 100 to 150 feet above the level of the supply. The lever is long and in a vertical position, making it easy to operate the pump.



"Star" Force Pump.
Anti-Freezing.
Fig. No. 1153.



"New Alert" Double-Acting Air
and Water Force Pump.
Fig. No. 1334.

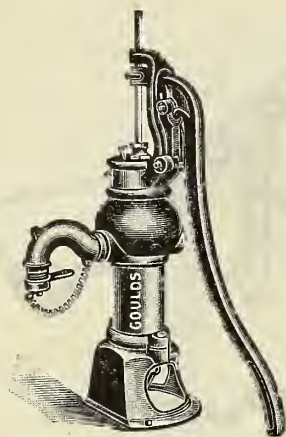


"Stock" Pump.
Star Lift.
Fig. No. 1018.

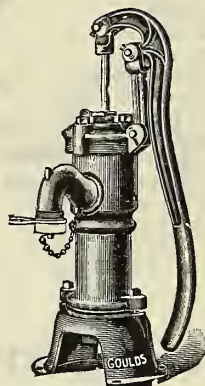


"Empire" Double-
Acting Force Pump.
Fig. No. 1362.

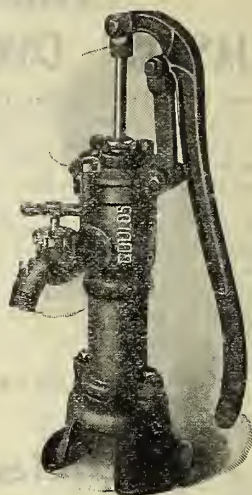
Goulds Cistern and Pitcher Spout Pumps.



"Boston" House Force Pump.
Fig. No. 1523.



"Universe" Brass Lined House Pump.
Fig. No. 1168.



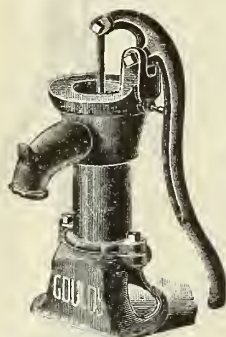
"Universe" Brass Lined House Pump.
Fig. No. 1169.

Fig. No. 1523. This pump meets the demand for a medium-priced force pump with large air chamber capacity for supplying water in residences, or for outdoor use over driven wells. Can be arranged for supplying water either from the spout or from opening at the back for piping to cistern or storage tank in the attic. Plunger rod is of polished steel. It operates through a brass packing gland and is guided by both the bearer top and stuffing box. Pumps with brass-lined cylinders have galvanized plungers and valves. All "Boston" brass-lined pumps are fitted with brass-bushed suction valve seat.

The "Universe" Hand Force Pump is an easy working, compact and substantial pump. It is well adapted for house pumping, furnishing water either at the spout or through opening at back to storage tank, also for outdoor use over driven wells. The bearer top is secured with hook bolts, and can be turned to any desired angle. The plunger rod is brass-cased, and the stuffing box is brass.

Fig. No. 1168. Iron "Universe" Hand Force Pump, fitted with syphon spout, produces an even flow of water. Spout is provided with a cap and chain. By screwing cap to the spout, water may be discharged through back outlet of pump.

Fig. No. 1169. Iron "Universe" Hand Force Pump, similar to No. 1168, but fitted with a cock spout.



Vacuum Base Pitcher Pump,
Iron or Brass Lined. Fig. No. 209.



Pitcher Spout Pump.
Fig. No. 205 1-2.

Fig. No. 209. This pump is a special design for service with driven wells where the ordinary pump would not work satisfactorily. It is fitted with a vacuum chamber in the base, as shown by the sectional view.

Fig. No. 205 1-2. Standard closed top Pitcher Spout Pump. A low priced, substantial pump for use over cisterns or shallow wells. The bearer top is secured to the cylinder with a set screw. A nut tapped for iron pipe is supplied on the threaded hub beneath the "G" base.

The Goulds Pumps, as shown on these two pages, comprise a special assortment selected to meet the demands of a very large per cent. of every-day requirements.

When in need of a pump do not fail to write us for quotations.

GOULDS Brass Jacket Drive Well Points.

These well points are made of galvanized iron pipe with elliptical holes punched of uniform size an equal distance apart. They contain the greatest number of holes possible to punch in a pipe and retain sufficient strength for driving. They are covered with a brass wire cloth which is protected by a heavy perforated brass jacket. The drive point is iron, swaged into the pipe and riveted.



No. 661.

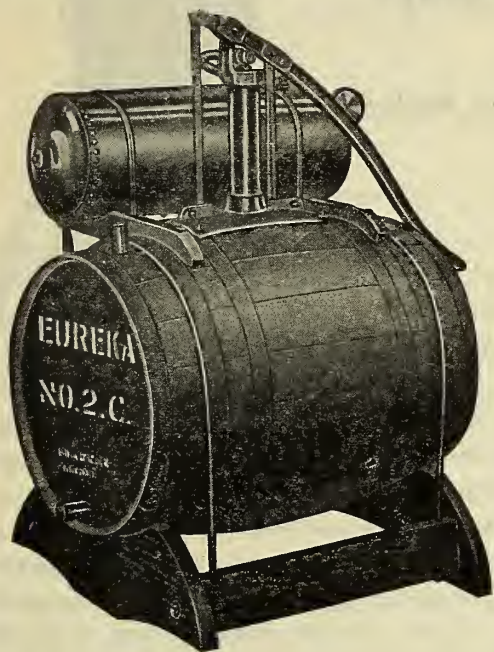


No. 524.

Write for quotations.

EUREKA COMPRESSED AIR SPRAYERS.

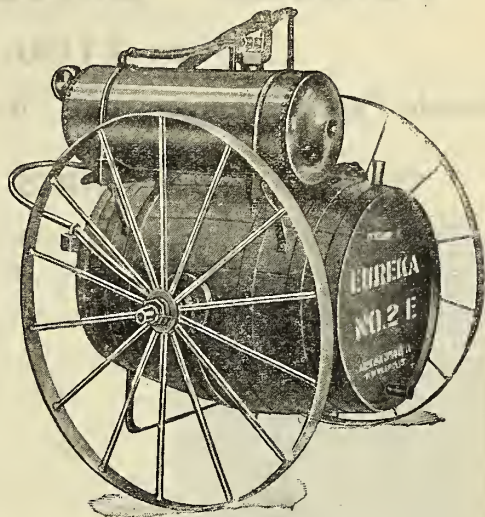
We wish to call attention to the advantages found in an outfit with a large air chamber and pressure gauge, as it permits the user to spray for ten or twelve minutes without pumping, thus enabling one man to spray without a helper, while the pressure gauge indicates to the user the power behind the spray.



EUREKA NO. 2 C.

No. 2 C consists of the No. 5 pump and 50 gallon barrel placed on cradles so as to ride easily on a wagon. Is complete with 15 feet hose, one 8-ft. iron extension, nozzle and pressure gauge.

Price on application.



EUREKA NO. 2 E.

No. 2 E consists of the No. 5 pump and 50 gallon barrel mounted on wheels. Complete with 15 feet hose, one 8-ft. iron extension, nozzle and pressure gauge.

Price on application.

EUREKA NO. 2 G.

Same in construction to No. 2 E, excepting that it is equipped with thills for horse.

Price on application.

"IDEAL" SPRAY OUTFIT.

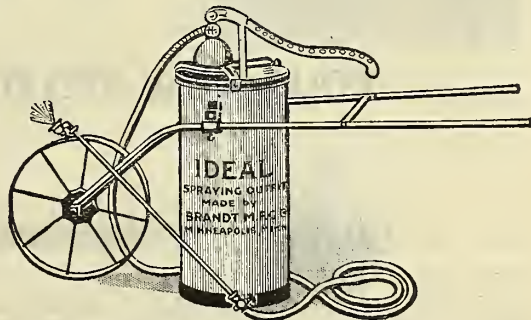
This outfit is light, compact and easy to operate. The tank holds fifteen gallons, is mounted so that the liquid will not slop or spill, and in a way that makes it easy to handle. The pump spreads across the top of the tank and is held firmly in place by a thumb nut. It has the largest air chamber of any spray pump of corresponding size. This enables the operator to keep a uniform pressure at the nozzle.

The pump barrel is $1\frac{3}{4}$ inches in diameter, 7 inches in length. The plunger is made of brass and is self-oiling. The packing is cotton wick, which will resist the action of the chemicals used for spraying and can be tightened without removing from the pump. The valves are bronze balls $\frac{3}{8}$ of an inch in diameter, which allows free passage of the liquids and prevents clogging. Both valves are removable. The pump handle is of iron. It is extra long and a pressure of one hundred and fifty pounds can be easily maintained.

A mechanical agitator keeps the liquids well stirred. A fine strainer at the opening in the suction pipe prevents anything getting into the working parts of the pump. The pump has the following equipment.

10 feet $\frac{3}{8}$ inch pressure hose.

8 ft. pipe extension, in 2 pieces.



1 "Ideal" nozzle.

1 brass shut-off cock.

Price on application.

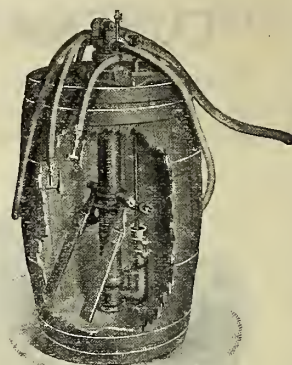
GOULDS

"Pomona" Barrel Pump,

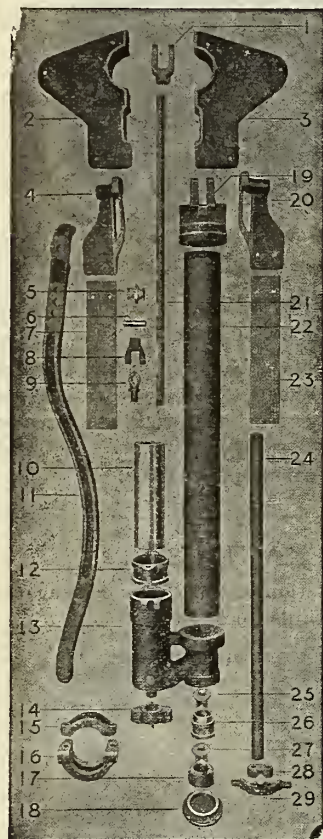
No. 1100.

Outside Packed Plungers.

No Leather Packings.



"POMONA" PUMP PARTS.



PRICES.

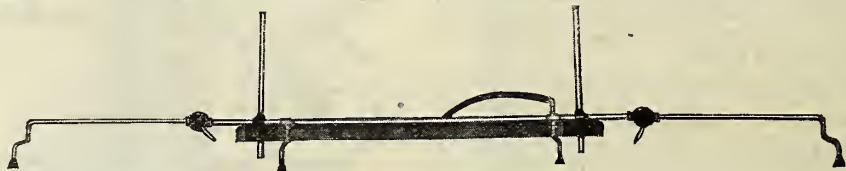
Fig. 1,	\$1.25
" 2,	.75
" 3,	.75
" 4,	.75
" 5,	.35
" 6,	.15
" 7,	.15
" 8,	.75
" 9,	.50
" 10,	5.50
" 11,	1.25
" 12,	1.75
" 13,	2.25
" 14,	.25
" 15,	.20
" 16,	.40
" 17,	1.25
" 18,	1.00
" 19,	.75
" 20,	.75
" 21,	.30
" 22,	2.25
" 23,	.15
" 24,	.40
" 25,	.35
" 26,	.75
" 27,	.35
" 28,	.30
" 29,	.20

For small orchards of a few trees a good barrel pump will meet every requirement, and the "Pomona" is offered as one of the most satisfactory pumps of this kind.

It is unusually powerful, fully capable of supplying two leads of hose, 15 feet each, and two angle nozzles. The working parts, including the plunger, plunger connection, gland, valve, valve seats and strainer, are of solid bronze. They are simple, accessible and easily removed. The pump has a steel air chamber extending from the top of the sprayer to the valve chamber, making it easy to produce sufficient pressure to continue spraying for some time after the pumping has stopped. It is equipped with a long adjustable lever, producing three, four or five inch strokes by simply removing and replacing a single bolt, thus varying the pump's capacity. The pump may be placed in any length barrel, as the barrel plate is adjustable. It is held firmly in place by this plate and a small anchor at the bottom of the barrel. The agitator is simple, but very effective, operated by the same lever that works the sprayer.

Price on application.

FOUR ROW FIELD CROP ATTACHMENT.



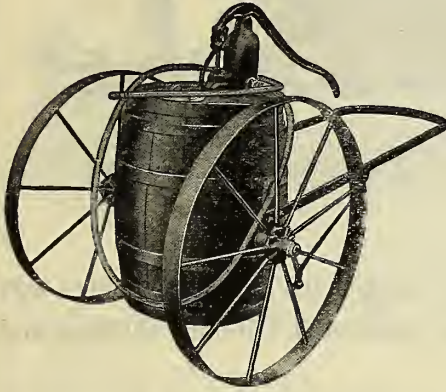
For field crop spraying we offer an attachment which will meet every need. These outfits are arranged for attachment to the rear end of a wagon. Two through bolts and two strong iron clamps secure the outfit to the wagon.

The discharge hose from the sprayer, located in the wagon, is connected to a threaded opening of the fixture. For distributing the spray, two iron pipes are connected to the attachment by a folding joint. These pipes contain one or more nozzles each. The pipes are held in a horizontal position by iron rods which are attached to the handle of the fixture. By means of this handle the entire outfit is raised or lowered as desired.

Price on application.

Barrel-Cart Outfit, No. 10.

CARRIES THE SPRAY AS HIGH AND DOES AS THOROUGH WORK AS
MORE EXPENSIVE POWER OUTFIT.



For the man who has no horse, or having the horse, has no wagon suitable for carrying a barrel spraying outfit.

Also for use in places where it is not convenient to go with horse and wagon.

In orchard or garden and in many ways and places this is a most convenient, durable and effective outfit.

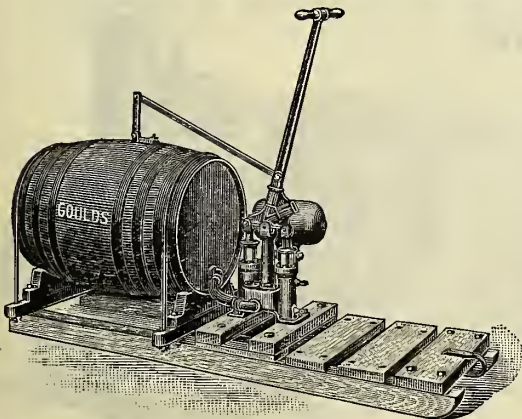
Strong iron wheels thirty-four inches in diameter, with tires two and one-half inches wide, permits moving this outfit from place to place much more easily than where small wheels with narrow tires are used. Strong iron handle and rest makes the outfit practically indestructible.

The pump mounted on this outfit is our No. 8, having brass cylinder $2\frac{1}{2}$ inches in diameter, 7 inches long; all brass plunger; brass valves and valve seat; has large air chamber, giving great power, force and fineness of spray. By attaching a Y to spout of pump two leads of hose with two or four nozzles can be used—so permitting spraying from both sides of the outfit at the same time.

Churn dash agitator attached to piston thoroughly mixes the solutions at every stroke of pump handle. Brass wire sieve on intake pipe prevents sediment from entering.

Price on application.

NEW "MONARCH" SPRAYER, No. 1610.



The new "Monarch" outfit is a barrel sprayer for service where the fruit grower needs a hand sprayer of larger capacity than the ordinary barrel sprayer. It consists of the "Monarch" two cylinder pump, mounted on skids with the barrel.

The barrel is provided with an agitator, which is operated by a lever connected to the pump lever. In addition to the barrel and pump, the skids carry a platform upon which the operator stands. A ring is also attached at the front for connection to the whiffletree.

The outfit is furnished complete with pump, barrel, agitator, connection between pump and barrel, and skids.

Price on application.

SIMPLEX SPRAYER.

FOR FOUR OR SIX ROWS AS ORDERED.

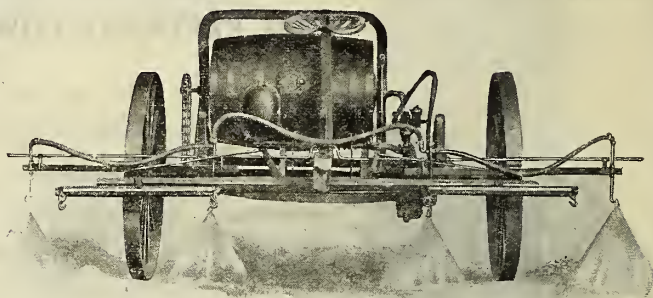
A sprayer without an equal. Strong, durable and efficient. All parts directly under the eye and control of the driver.

The heart of a sprayer is the pump. This one is **solid brass**, is cam driven, and very powerful. The supply tank is a 50-gallon oak barrel. The frame of the machine is built of angle steel. The wheels are of steel, with concave tire, so as to hold in soft ground. Both wheels are drive wheels. The axles are made of 1 7-16-inch shafting and held in place by three malleable bearings.

The Simplex is built to straddle two rows of potatoes, which is found to be far superior to machines that straddle one row, as the machine rides more level and does not miss the outside rows by throwing the spray over them. A set of wide neck yoke and doubletrees is furnished, so that a double team may be used and they won't tramp down the potatoes.

The Simplex Potato Sprayer is built especially for applying solutions to potatoes and other vegetables. Unlike the ordinary sprayer on the market to-day, this is a high power machine, and therefore sprays rather than sprinkles the solution. The advantage is self-evident, as with power behind the spray the leaves are rolled around, and the plant thoroughly covered.

Price on application.



DIRECT CONNECTED PUMPING OUTFIT.

SELF CONTAINED GASOLINE ENGINE AND GOULDS PYRAMID DOUBLE-ACTING PUMP.

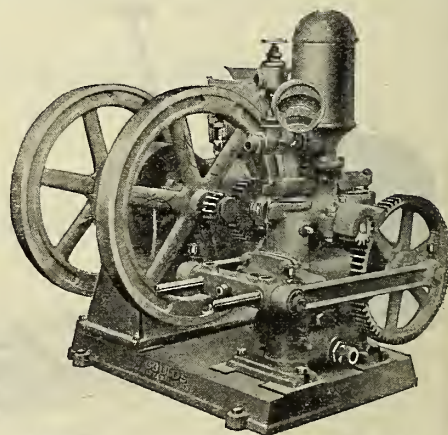
No vibration and perfect alignment at all times.

TABLE OF VARIOUS COMBINATIONS.

Engine Horse-power.	Pump Diameter.	Pump Stroke.	Gallons per minute.	Suction Inches.	Discharge Inches.
1 ½ to 3 ½	3	5	8 to 15	1 ½	1 ½
2 to 3 ½	4	5	15 to 30	2	2
2 ½ to 3 ½	5	5	20 to 30	2 ½	2 ½
3 ½ to 6 ½	6	6	50 to 70	3	3
6 ½ to 9	6	12	100 to 140	4	4

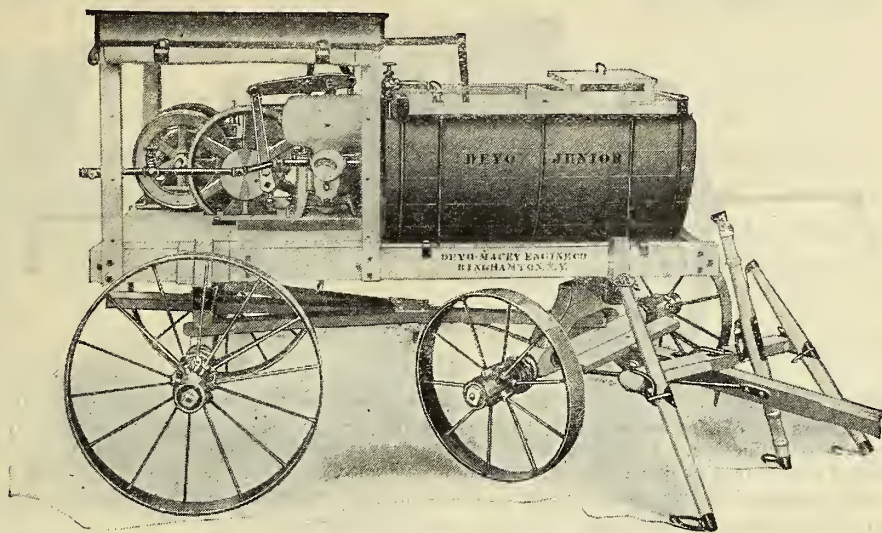
The power required for these outfits depends upon the capacity and pressure desired.

Price on application.



ENGINE AND PUMP ON CAST IRON BASE.

DEYO POWER SPRAYERS.



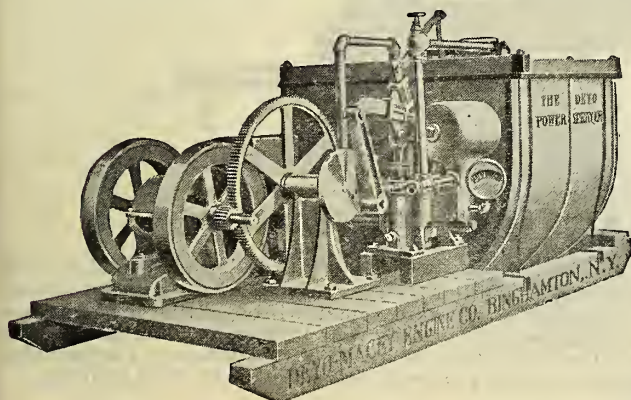
JUNIOR OUTFIT.

This cut shows the latest DEYO SPRAYER, which has been designed especially to meet the demand for an efficient, small, light power sprayer at a reasonable figure. Regular equipment includes the following: Deyo $1\frac{1}{2}$ horse-power hopper jacket horizontal engine, gear connected to Goulds two-cylinder pump; battery box, tool box, and full set of tools, lubricating oil and cup grease; ten foot lead of 1-inch suction hose, fitted with strainer; two 25-foot leads of special $\frac{3}{4}$ -inch discharge hose fitted with connections for attaching to pump and extensions; two shut-offs for discharge; one pressure gauge; one water relief valve; two 8-foot $\frac{1}{4}$ -inch back extension rods, fitted with stopcocks, Y's and four nozzles; 150 gallon cypress tank with mechanical agitator.

All of the above equipment is connected complete and mounted on platform with cab over engine, and curtains to protect the engine and pump.

Price on application.

DEYO POWER SPRAYERS—Skid Mounted.

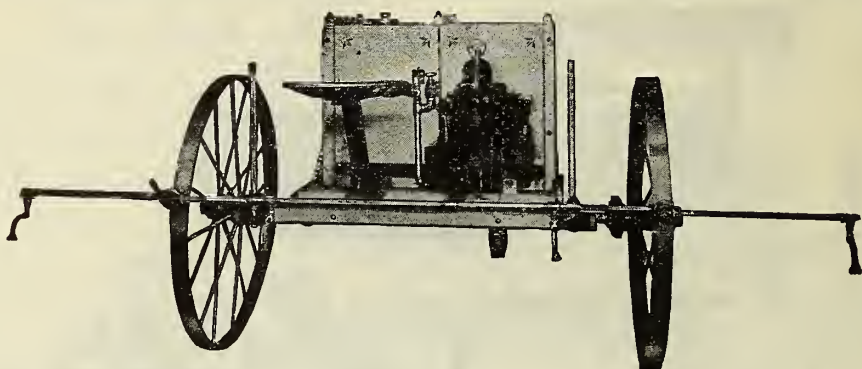


Constructed in every way as is the "Junior", excepting that it is "skid mounted". An outfit quite popular, as it combines working qualities with the lowest price possible.

Price on application.

SPECIAL "SKID MOUNTED" OUTFIT.

LITTLE GIANT NO. 28 FIELD AND POTATO SPRAYER.



This 65 gallon Tank Sprayer is equipped with four row attachment for spraying potatoes.

Its width permits it to pass between two rows, leaving proper space between row and nozzles for the spray to become most effective. Equipped with vertical spraying attachment, every part of the vine from ground to a height of five feet or more may be drenched with spray.

The pump is so situated in the machine that dirt will not fall into the working parts and cause trouble.

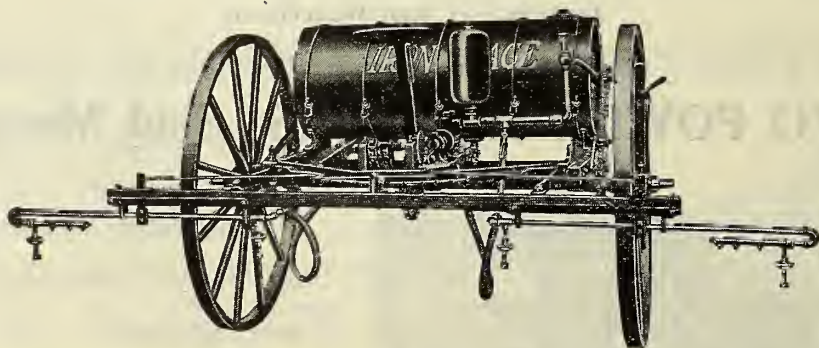
Has 44-inch steel wheels, 2½-inch tire. Axle 1½-inch cold rolled steel.

The wheels are of wrought steel and are so arranged that they will fit either side, and the machine can be made to track any width from four to six feet. The mechanical agitator is driven by a little sprocket always in operation when the machine is moving and keeps the solution thoroughly mixed. The solution tank is made of clear heart cypress, and will outlast the barrel or steel tank commonly used. It is provided with a galvanized strainer in the filler opening, and a plug is placed under the tank for cleaning or emptying same. The entire piping is brass and the machine is equipped with a 200-pound pressure gauge and safety valve. The pump being double acting, the stroke is constant and there is no pounding or uneven use of power. This machine is tested at 200 pounds pressure before it leaves the factory. The usual potato attachment is made of brass. Pole is convertible, viz., can be spread and used for shafts when it is desired to use one horse.

Price on application.

IRON AGE FOUR ROW SPRAYER.

ASK FOR SPRAY BOOKLET.



IRON AGE TRACTION SPRAYER.

For potatoes and other row crops. Made in four or six rows, with 50 or 100 gallon wood tanks, wood wheels, single or double acting pumps, thorough mixing of solutions, large air chamber, bronze ball valves, hemp packing—all easily gotten at—relief valve to regulate the pressure, center drive by chain, pressed brass nozzles and nozzle strainers with every outfit. Spraying not only insures your crop against blight, and kills the bugs in a hurry, but every spraying actually improves the healthy condition of your plants and so increases the yield per acre. Takes an orchard attachment at a moderate price—entirely practical in small orchard.

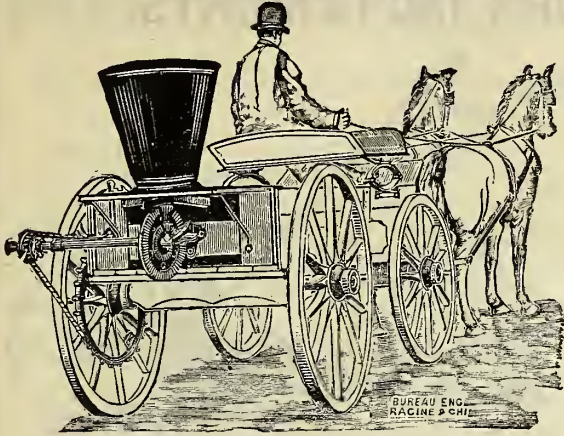
Price on application.

Foster (Racine) Broadcast Seeder.

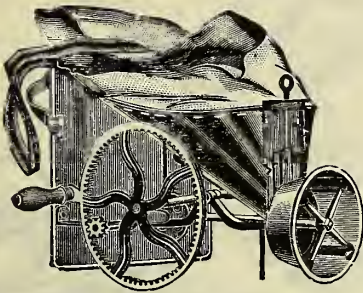
(DOUBLE GEAR.)

Will sow perfectly any quantity to the acre of oats, barley, rye, buckwheat, clover, millet, timothy, Hungarian, etc. Will also sow peas, corn and fertilizers in a most satisfactory manner.

Price on application.



THE CAHOON BROADCAST SEED SOWER.



For Sowing Wheat, Oats, Barley, Rye, Buckwheat, Grass Seeds, etc.

This hand machine sows from four to eight acres per hour, at a common walking gait.

Price, \$3.00.

CYCLONE BROADCAST SEED SOWER.



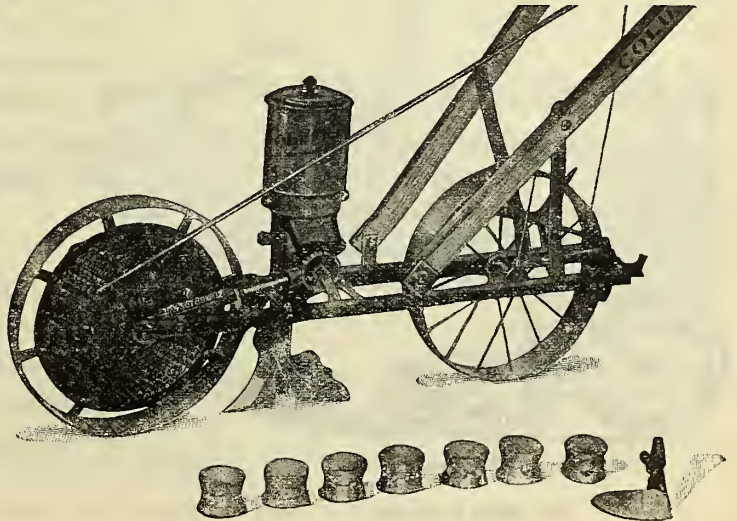
This seeder is practical, neat and mechanically correct in construction. It distributes seeds evenly, has an automatic cut-off, and the iron distributing wheel gives great momentum. No machine does better work, it being a strictly high grade seeder.

Price, \$1.50.

The New Columbia Garden Seeder.

This new seeder has proved to be one of the most successful and accurate planters on the market. With the Columbia you can plant a greater variety of seed and more accurately than any other machine manufactured, and also bear in mind that it has positively a force feed. Seed can be drilled or planted in hills at various distances. Comes equipped with seven seed cylinders, and can furnish extra ones for any special seed you might have. Regular equipment will plant all common vegetable seeds, from the smallest up to beans and peas.

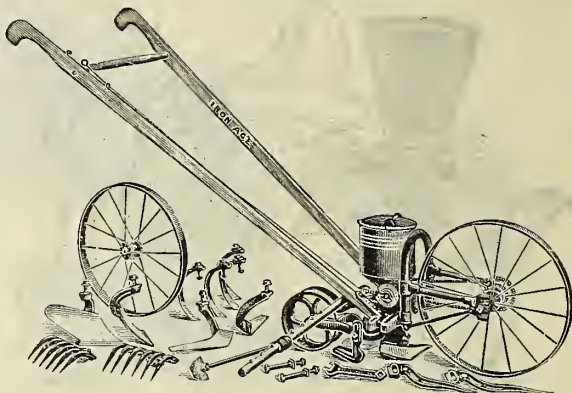
Price, \$11.00.



IRON AGE GARDEN IMPLEMENTS.

No. 6. "Iron Age" Combined Double and Single Wheel Hoe, Hill and Drill Seeder.

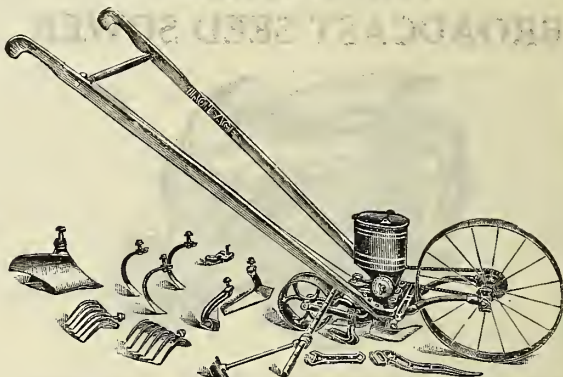
Ten tools in one, and each as satisfactory as a tool made for the special purpose. Places the seed in continuous rows or in hills, 4, 6, 8, 12 or 24 inches apart. Can be quickly changed to a double or single wheel hoe, cultivator, rake or plow. **Price** (complete), \$12.00.



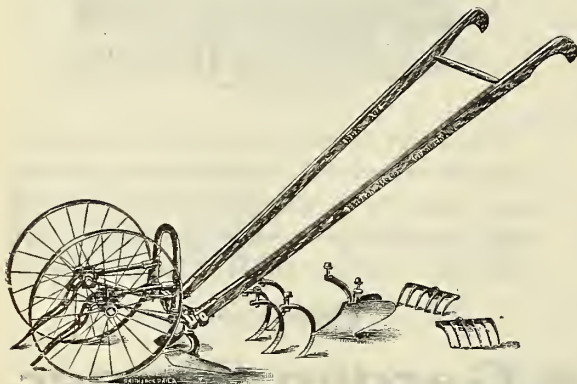
No. 6.

No. 15. "Iron Age" Combined Single Wheel Hoe, Hill and Drill Seeder.

Very similar to the No. 6 above excepting it has only the single wheel. **Price** (complete), \$11.00.



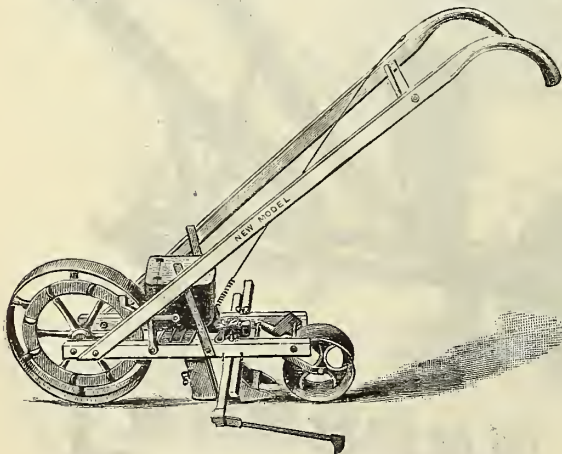
No. 15.



No. 1.

No. 1. "Iron Age" Double and Single Wheel Hoe.

Can be quickly changed to a double or single wheel hoe, cultivator, plow or rake, as a double wheel can be used astride the row or as a single wheel between the rows. A drill seeder or hill and drill seeder attachment can be added at any time. **Price** (complete), \$7.00.



New Model Seed Drill.

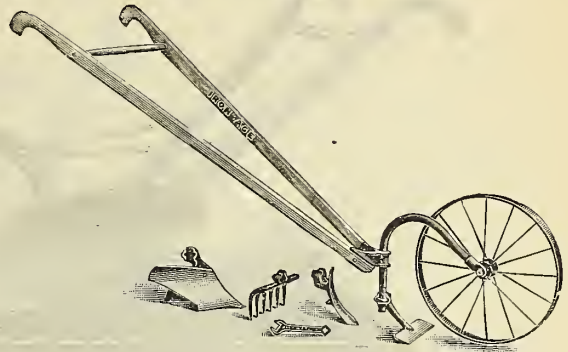
New Model Seed Drill.

This drill has been in use many years, and is well known to give perfect satisfaction. It has a large, broad-tired wheel, perfect and reliable index, a cut-off to stop the flow of seed when desired, and is very valuable and complete. **Price**, \$8.00.

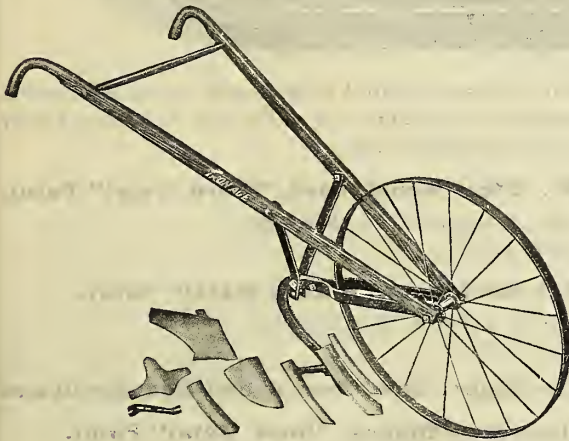
IRON AGE GARDEN IMPLEMENTS—Continued.

No. 12. "Iron Age" Wheel Plow and Cultivator.

Remarkable for its exceeding lightness, combined with great strength, the low price and variety of work it will accomplish. Will do all the work of a kitchen garden, as ploughing, hoeing, raking and cultivating, and is especially suitable for those desiring such a variety of tools for a small amount. **Price** (complete), \$3.50.



No. 12.



No. 19 C.

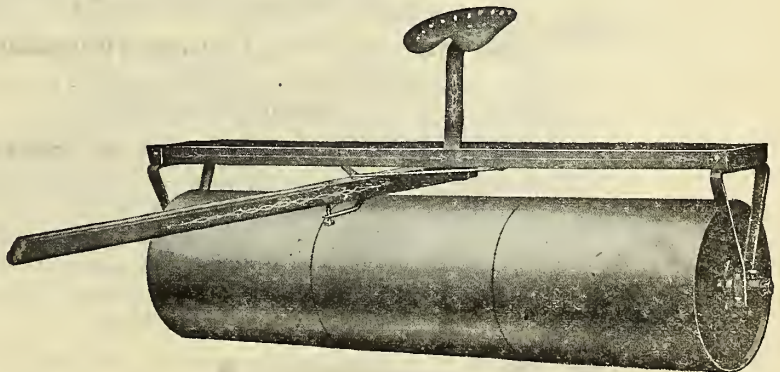
No. 19 C. "Iron Age" Wheel Plow and Cultivator.

Has a higher wheel than any previously offered, it being 24 inches high, with 1-inch tire, and very strongly made. The frame is steel throughout, which insures durability and lightness. **Price** (complete), \$3.50.

STEEL LAND ROLLERS.

Heavy steel heads are used, making fully closed ends. The rims or drums of these rollers are of the best material of heavy gauge and are firmly riveted to the heads.

The hangers are of forged steel and are not easily broken. The bearings in the hangers are wood, and when worn, can be replaced at small expense.

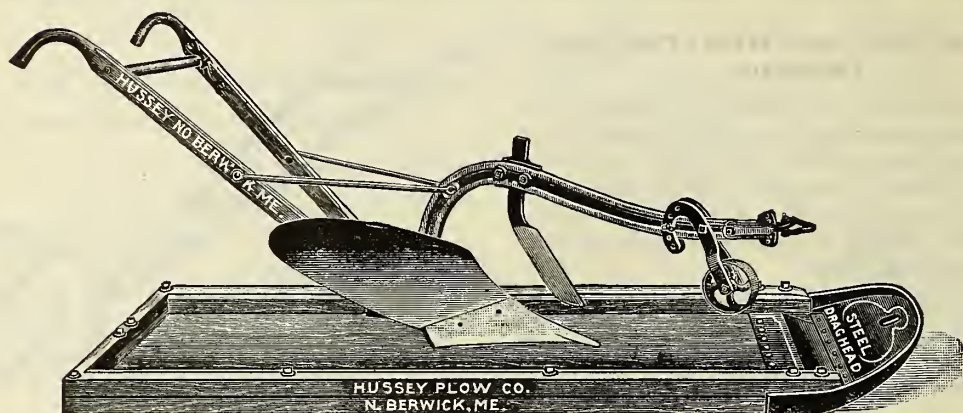


ONE-HORSE STEEL LAND ROLLER.

Similar in construction to two-horse roller, but made with shorter sections.

Price on application.

HUSSEY PLOWS.



These plows are very strongly built, have the regular "Hussey" shaped mouldboard, which is so much liked by New England farmers, are made of the best materials throughout, are easily held, and are as nearly complete and satisfactory in every respect as the most critical farmer can ask.

NO. 23. MEDIUM OR LIGHT TWO-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts from 4 inches to 7 inches deep, 11 inches to 13 inches wide.

Weighs, complete, 120 lbs.

No. 25. LARGE TWO-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts from 5 inches to 7 inches deep, 13 inches to 16 inches wide.

Weighs, complete, 128 lbs.

No. 26. SAME PLOW as No. 25, with a Little Higher Mouldboard and Heavier Beam.

No. 28. LARGE THREE-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts 7 inches to 9 inches deep, 14 inches to 18 inches wide.

Especially adapted for breaking up new land.

Weighs, complete, 162 lbs.

No. 100. (Wood Beam.) ONE-HORSE PLOW.

Cuts from 5 inches to 6 inches deep, 10 inches wide.

Weighs, complete, 66 lbs.

No. 102. (Wood Beam.) LIGHT TWO-HORSE PLOW.

Cuts from 5 inches to 7 inches deep, 12 inches wide.

Weighs, complete, 82 lbs.

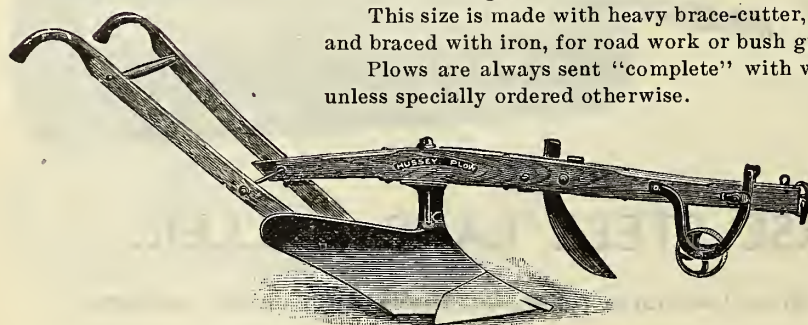
No. 108. (Wood Beam.) HEAVY ROAD OR BUSH GROUND PLOW.

Cuts from 8 inches to 10 inches deep, 18 inches to 20 inches wide.

Weighs, complete, 190 lbs.

This size is made with heavy brace-cutter, and beam laid with wrought iron and braced with iron, for road work or bush ground.

Plows are always sent "complete" with wheel and common sword cutter, unless specially ordered otherwise.



WOOD BEAM HARD METAL PLOW.

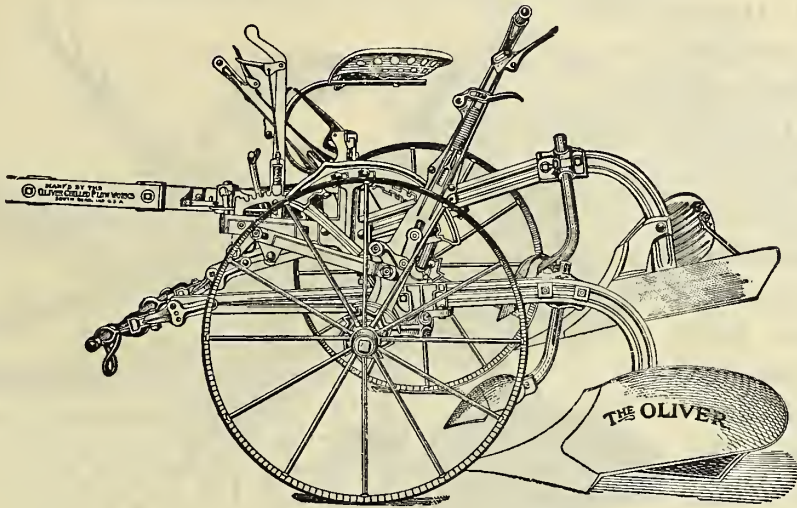
Descriptive Catalog,
showing

Complete Line,

mailed on application.

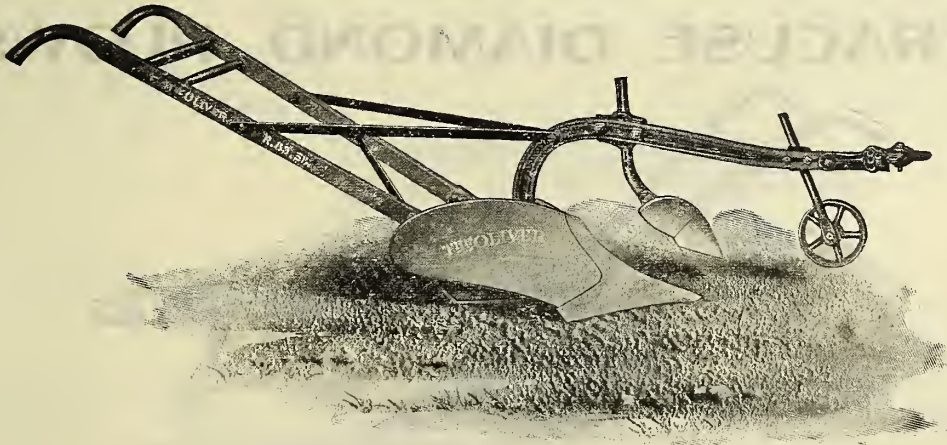
OLIVER PLOWS.

REVERSIBLE SULKY PLOW.



The No. 23 Oliver Sulky Plow is not only one of the best in theory and practice, but the most expert and careful workmanship guarantees every plow as near perfect as human effort can make it. By means of a "horse lift", which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half and it is not necessary to use the hand lever. With this plow the operator can keep his eyes on his team and his hands on the reins—the feet only are needed in order to raise the plow. The wheels have staggered spokes and wide tires and are set so as to insure strength, easy running and long life. Made with either chilled or steel mouldboard as purchaser may wish.

NOS. 82, 83 AND 84.



Nos. 82, 83 and 84 plows are especially designed for general purpose work, and having superior turning qualities are well adapted to sandy, gravelly and stony soils. The long, graceful turn to the mouldboards also fits them for work in sod, in the turning and laying of which they give particular satisfaction. The plows are steady running, light in draft, easily handled and strongly braced.

No. 82. A light two-horse plow. Capacity, 6 x 12 inches.

No. 83. A medium two-horse plow. Capacity, 7 x 13 inches.

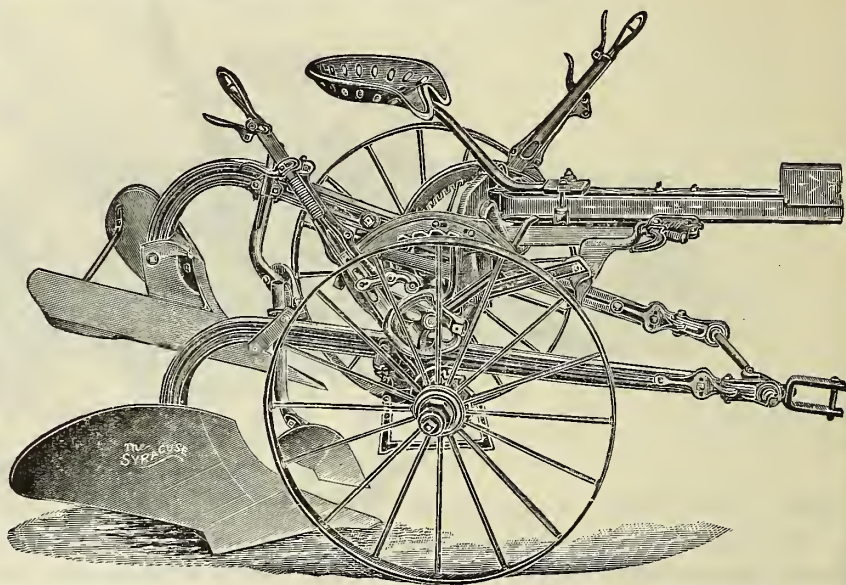
No. 84. A large two-horse or medium three-horse plow. Capacity, 8 x 15 inches.

Price on application.

SYRACUSE SULKY PLOW.

THE FIRST PRACTICAL SULKY PLOW MANUFACTURED, AND IS STILL ONE OF THE BEST ON THE MARKET.

Hardened steel mouldboards and steel strips. Chilled or steel shares. For two or three horses, as ordered. Does perfect work on hillside or level land. No ridges or dead furrows. Steel wheels with removable chilled boxes and dust-proof caps. The beams, jointer standards, and bails are of steel.

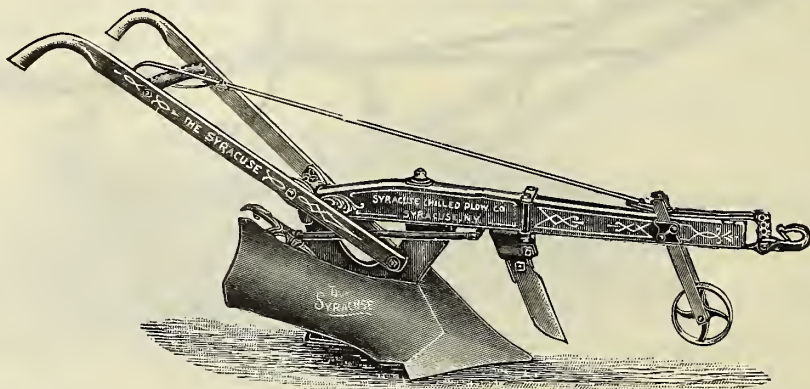


The demand for this kind of riding plow has increased rapidly of late years, as the feature of having level fields without dead furrows or ridges has commended it to numbers of our most successful farmers.

As appears in the cut, two flat land plows are mounted on separate steel beams and the movements of each controlled by a separate lever. In use one plow is raised, while the other turns the furrow. At the end of the furrow this plow is raised by pressing down on the foot trip, which transfers the labor to the team and automatically unlocks the plow when clear from the ground, leaving the driver both hands with which to manage his horses in turning. After the turn is made and the other plow lowered, the whiffletrees slide automatically to place at the end of the long clevis in front of the working plow, so that the plow draws in line of draft.

(All castings are malleable.)

SYRACUSE DIAMOND PLOWS.



This series has proved very popular in New England. They are light weight, of good capacity and handle easily.

These plows are made with both steel and cast mouldboard; steel, however, is preferable, as it is equally strong and much lighter.

◆A MEDIUM TWO-HORSE, CAST SHARE, CAST OR STEEL BOARD.

◆B LIGHT TWO-HORSE, CAST SHARE, CAST OR STEEL BOARD.

◆C ONE-HORSE, CAST SHARE AND CAST BOARD ONLY.

Price mailed on application.

THE SOUTH BEND TWO-WAY SULKY PLOW.

The South Bend Two-Way is adapted to flat land, as well as hillside work. It is a perfect riding plow, possessing more excellent features than any similar Sulky made.

A very practical plow for every farmer. It is simple and strong, light in draft, because all weight is carried on the wheels; very easy to handle, as it is only necessary to touch a foot lever, which engages plunger in ratchet on wheel, and lifts the plow from the ground to the correct position, when the plunger releases automatically.

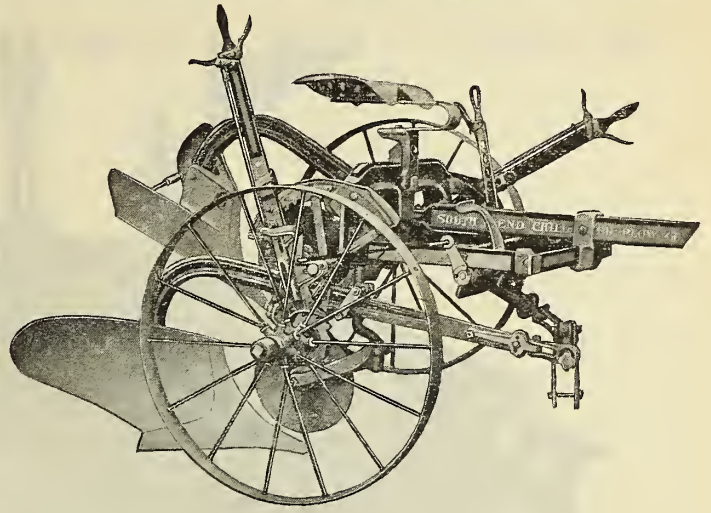
The lifting is done entirely by the team. Pressing the foot trip or lower hand latch of lever, the plunger engages the wheel ratchet, which revolves with the wheel, until the correct position is reached when the plunger releases automatically.

The draft is from the point of the beam. The hitch is low and rolls automatically to the right position when either bottom is lowered.

The wheels are high, have broad tires, staggered spokes and removable, dust-proof boxes.

The entire bottom of the plow is all **chilled steel**. Furnished with three-horse eveners and neck yoke, and with either jointer, coulter, or **roller coulter** (which no other plow offers unless at an added cost), as the purchaser may wish.

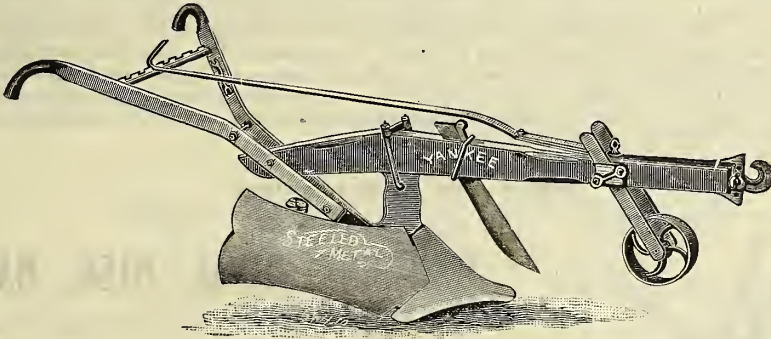
Price on application.



THE YANKEE SWIVEL PLOW,

With Patent Steel Shifting Lever and Clevis.

IN SIZES FOR ONE, TWO, OR THREE HORSES.

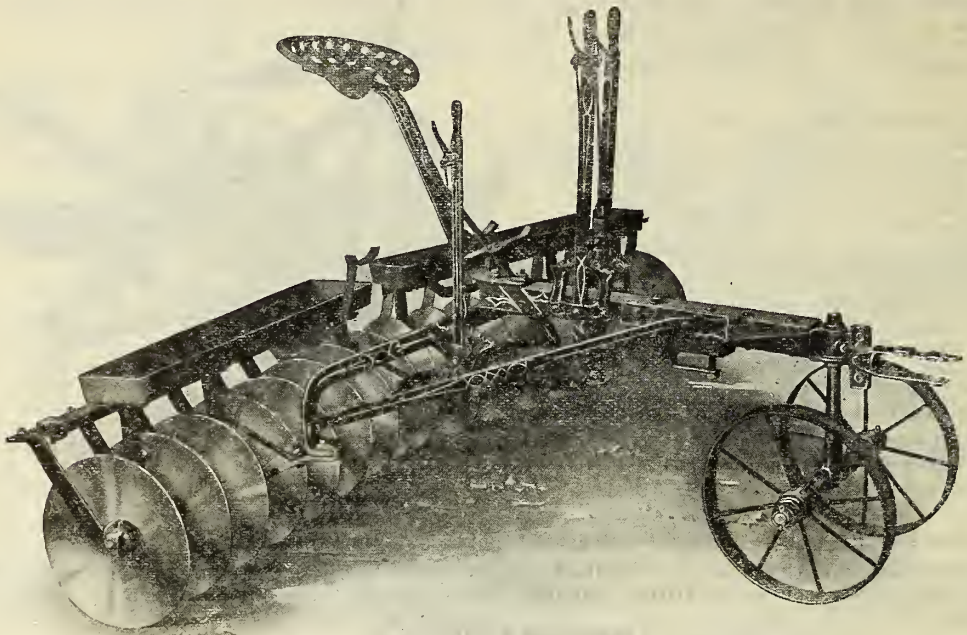


The special distinctive feature in the Yankee is the patented steel shifting lever and clevis, which, as shown in the above cut, consists of a steel lever attached to the clevis, held stationary and firmly in position by iron notches between the handles. When this lever is moved by the plowman, either to the right or left, which can be done instantly without stopping the team, the width of the furrow is changed. The excellence of such an arrangement will be seen by all, especially in view of the fact that heretofore reversible plows, as usually made, have no means of adjustment of any kind, and have frequently been condemned in consequence. Not only is this attachment so easy of operation that a child can manage it, but being of simple construction it will never get out of order. These plows are made from patent steeled metal, with beams and handles of best Eastern white oak.

The H series of Yankee Plows shown on this page, with patent spring foot latch, have to a large extent superseded the hand latch. This latch is an invaluable improvement, as, being operated entirely by the foot, the plow is ready for work as soon as reversed, which is done without taking the hands from the handles, or stopping the team. It is simple, strong and durable, and does not get out of order.

Price on application.

SATTLEY DISC HARROWS.



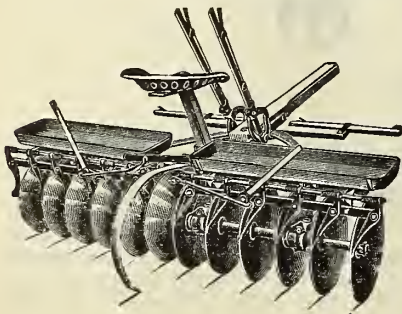
PLAIN DISC (showing pole truck attachment).

This attachment may be applied to any disc harrow made.

The frame is of heavy forged steel throughout, not a single casting being embodied in its entire construction. It is simpler, stronger and much more capable of withstanding the severe racking and jarring than are those with numerous cast joints and connections to jar loose. The necessary flexibility to permit the gangs to rock and conform to the unevenness of the ground is secured in the strongest and simplest manner possible. As may be seen in the cut, the ends of the crossbar of the frame are bent forward at right angles and fit into the looped end of the standard braces, the two being bolted together by heavy bolts. There is sufficient play left in these joints to permit the gangs all the freedom of movement demanded without resorting to clumsy and ill-fitting castings. The scraper bars are the well-known "oscillating" type, which hold the scraper blades in constant contact with the discs by a spring tension. By pressure upon the foot lever the scrapers can be held to their work at any point upon the discs, or made to sweep across the entire face from centre to rim. The bearings are kept lubricated from large oil chambers, which extend from top to bottom within the standards. Having the lubricating device protected in this manner does away with the breakage or injury which is always possible with the exposed oilers used on some harrows.

All Sattley Harrows have oiled maple bearings.

PRICE ON APPLICATION.



OSBORNE RIVAL DISC HARROW.

We are very glad to offer our customers the Osborne Disc Harrow, for we know that satisfaction follows every sale. Equipped with weight boxes, center teeth, 3-horse attachment and two levers leaves nothing to be desired. We have it in all sizes, both solid disc and cutaway. Can be furnished with tongue truck if desired.

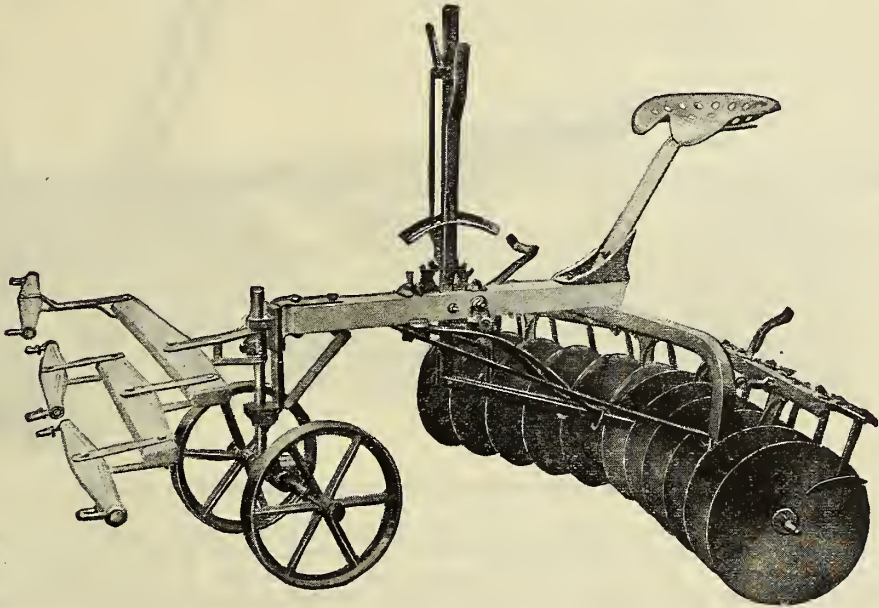
OSBORNE SPRING TOOTH HARROW.

This harrow is so well known and popular that it needs no description. We simply wish to remind you that we are never without them in stock, Sizes: 9, 15 and 17 tooth.

Price on application.

THE WALTER A. WOOD

DISC HARROW WITH POLE TRUCK.



The Wood Disc Harrow is one of the most efficient tools. It cuts and covers the weeds and stubble ; cuts the sod without pulling it up. In many soils, the Wood Disc Harrow takes the place of a plow and does the work better and quicker. It presents the advantages of not only turning the soil but of cutting up and pulverizing the clods of earth at one operation.

The value of fall plowing in many sections is being recognized more and more. The disc harrow for spring use is, therefore, becoming more and more valuable.

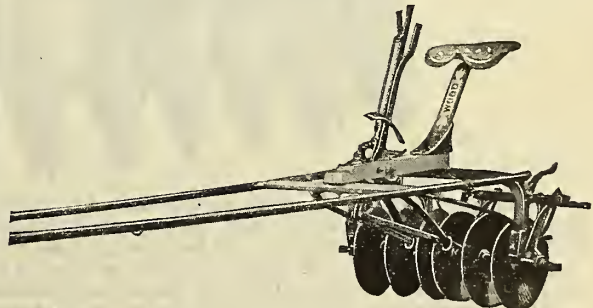
Even when plowing in the spring the disc harrow will prove valuable. By cutting up trash first, when the plow comes along, the ground settles down more quickly than if the trash were turned under whole. Of course after spring plowing the disc harrow will be needed to get the seed bed into shape as quickly as possible.

Price on application.

THE WALTER A. WOOD

ONE-HORSE DISC HARROW.

In addition to being constructed of the best material and in the most workmanlike manner, the Wood Disc Harrow is the only one possessing perfectly loose, flexible, ball-bearing gangs controlled by adjustable spring pressure. This pressure is regulated by means of a foot lever to correspond with the work that is being done. The results of this feature are : Saving of discs, reduction of draft, and great improvement in cultivation. Among the many one-horse harrows in the market, the Wood stands out because of its **spring flexible ball-bearing features.**



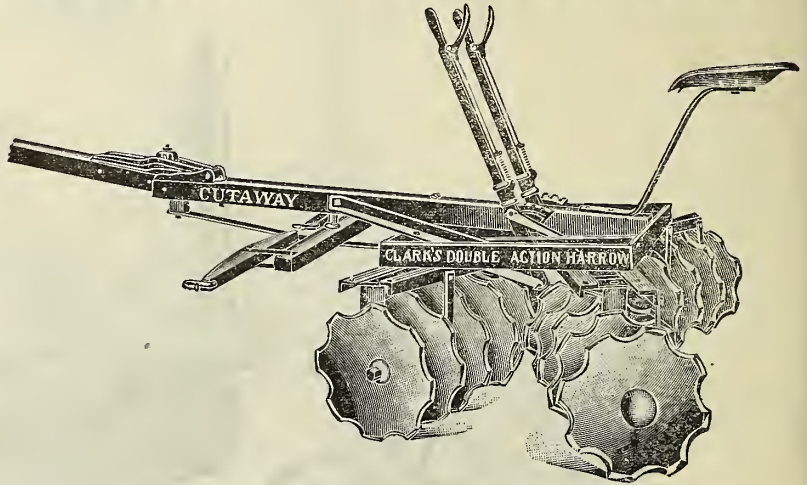
Price on application.

CLARK'S "CUTAWAY" TOOLS.

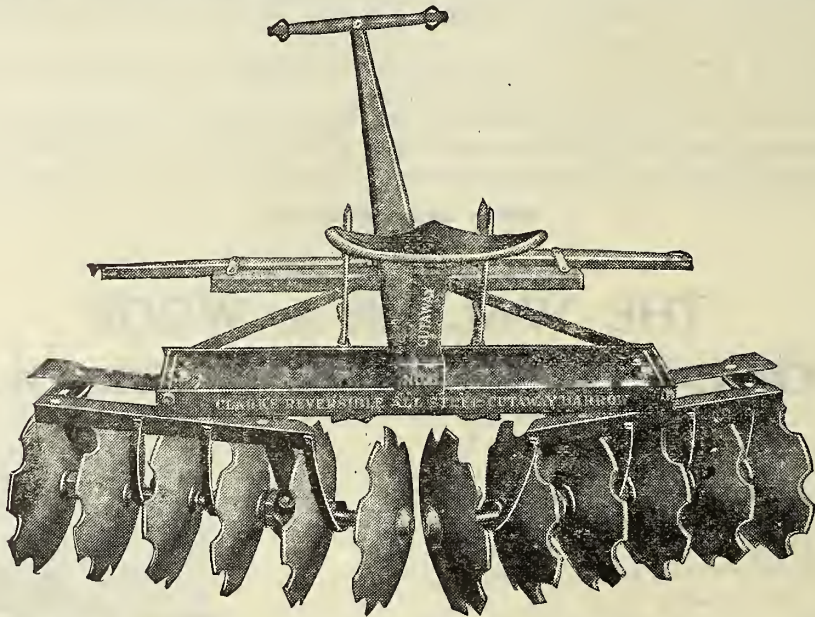
Clark's Double Action "Cutaway" Harrow.

These machines have four gangs of discs, two in front and two in the rear. The front gangs loosen and break up the dirt and throw the dirt out; the rear gangs throw the dirt in. All four gangs are carried by a main frame that gives a very strong unyielding connection between them. The rear discs are placed so as to track between the front discs and the main frame holds the rear discs to their work, keeping them from dodging to either side and holding them in the ground, no matter how hard the land is. Any trash passing between the front discs is cut up and turned under by the rear discs, where it will turn into plant food. Having a four-point bearing on the ground these machines run steady and true in the line of draft. The draft of these machines is very light, as the rear discs work in loose soil and consequently are drawn easily.

The whole machine, with the exception of the pole, is made of either iron or steel. The main frame and the gang frame side pieces are made of heavy angle iron. The strain of the gangs is taken up by angle iron bars, one above and one below the inner end of the gang frame. Both side pieces on each gang extend out between these bars. Heavy pipe standards are used, with the oil hole for the bearing at the top of the standard.



Clark's Reversible Double Lever "Cutaway" Harrow.



Clark's "Cutaway" Harrows have been in many competitive tests and have invariably come off victorious. No other harrow will stand up and work the wool grass or salt grass sod, or other hard sods that are often found, like Clark's Disc Harrows. In fact, we have never found any hard lands that the "Cutaway" will not work.

Clark's "Cutaways" are light in weight, yet heavy enough to properly enter the ground; light on horses; strong and durably built to withstand the severest strains without breaking.

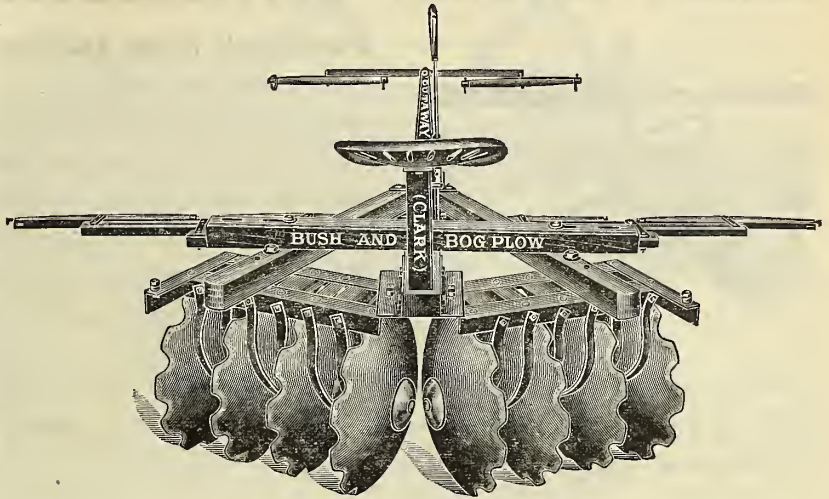
On all of Clark's "Cutaway" implements, the **edges of the discs are hand forged and tempered**, making them much stronger, and causing them to hold a **sharp cutting edge longer** than ordinary discs.

Price on application.

CLARK'S "CUTAWAY" TOOLS—Continued.

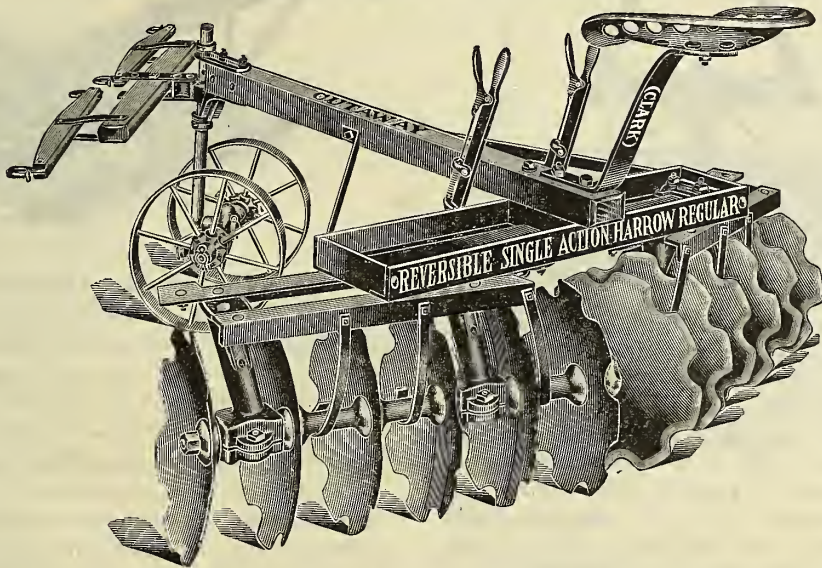
CLARK'S "CUTAWAY" BUSH AND BOG PLOW.

On many farms are fields lying waste, simply because their owners do not know how cheaply and quickly they may be put under cultivation. The old, expensive, hand-labor method is no longer necessary. Much work that could be done heretofore only by slow, tedious and hard labor with an axe, bush knife and shovel can now be done with the "Cutaway" Bush and Bog Plow. This machine is built very strongly throughout and stands up under work that would totally wreck other machines. In fact, it does work for which there is no other tool. For cutting brush land and cut-over timber land, for plowing bogs, or for doing any extraordinarily hard plowing and discing, the "Cutaway" Bush and Bog Plow stands in a class absolutely by itself. Among those farmers and orchardists who till unusually deep it is used for general cultivation and considered an indispensable part of the equipment. It is reversible; that is, the gangs can be exchanged so that the soil may be thrown either out or in. It cuts five feet wide and requires four fairly good horses to operate most successfully. It is not a heavy draft machine, but it is big and sturdy, and does an enormous amount of work.



CLARK'S "CUTAWAY" SINGLE ACTION HARROW.

Regular, and with Tongue Truck Extension Head.

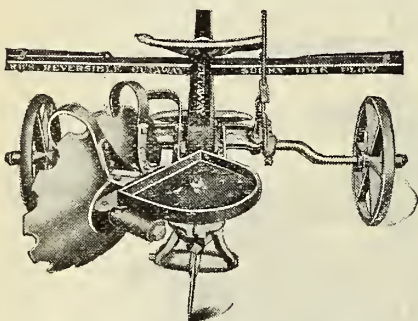


Why has this harrow won the support of practically every farmer who owns one? Because, first of all, it does the work; it is one of the most effective tillers ever put on any field. Second, its durability is almost unlimited. Third, it is convenient to handle and easy on the team. To reverse this harrow, you simply disconnect the lever links from the gang frames and swing the gangs around on the king bolts until what were formerly the outer discs become the inner discs, and reconnect the links. In this latter position the discs will throw the soil inwardly. Like those on all other "Cutaway" implements, the discs on this harrow are cutlery steel discs, *forged sharp*. This feature partly accounts for the remarkable long service always given by "Cutaway" disc implements. Forging compacts the molecules in the steel, making the disc much tougher than those sharpened in any other manner. It makes them retain a sharp edge long after ordinary discs are well worn away.

Prices on application.

CLARK'S "CUTAWAY" TOOLS—Continued.

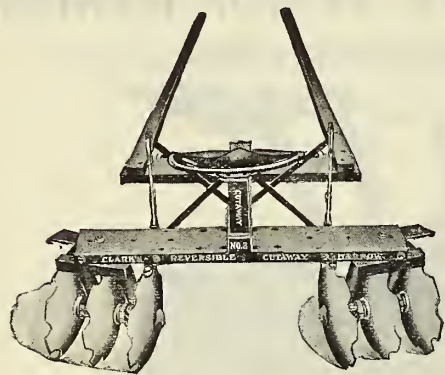
CLARK'S "CUTAWAY" REVERSIBLE SULKY DISC PLOW.

**Economical, Easily Handled, Most Effective Made.**

The wonderful achievements of this disc plow have attracted country-wide attention. It will make a 14-inch furrow nine inches deep with less draft than a drag plow. For plowing under stubble and weeds that do not form sod, there is nothing more economical or more easily handled. It is reversible, doing away with dead and back furrows. It will turn under weeds that average three feet in height, as well as any drag plow, but much faster and more easily, without clogging.

This is a light draft machine, designed especially for trade, where they need a plow that two horses can handle and turn soil four to six inches deep. Has weight box to accommodate sand bag in hardest work.

Discs are 26 inches in diameter; two-horse hitch.

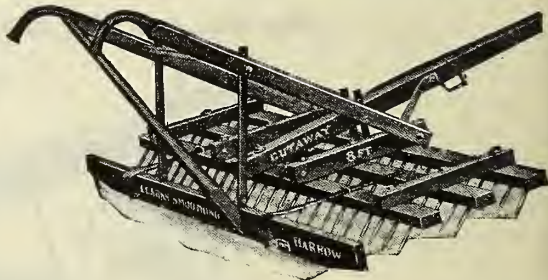
CLARK'S
"Cutaway" Ever-Handy Harrow.

This harrow may be used with the gangs (discs) open or closed as desired.

It is made for the express purpose of meeting the needs of the man who has only one horse. By means of the "Cutaway" Ever-Handy Harrow intensive tillage is made as economical and as practical for the man with a small outfit as for the man with large equipment. When the gangs are closed the harrow cuts 3 feet wide, each cutting 1½ feet. When they are fully extended the machine cuts 4 feet, 8 inches wide. The Ever-Handy is reversible; that is, the gangs may be set so the discs throw the soil either out or in. To reverse it you simply disconnect the lever links from the gang frames and swing the gangs "end for end", and reconnect links. This machine is equipped with 16-inch Clark forged edge discs. The journals are hard wood.

CLARK'S

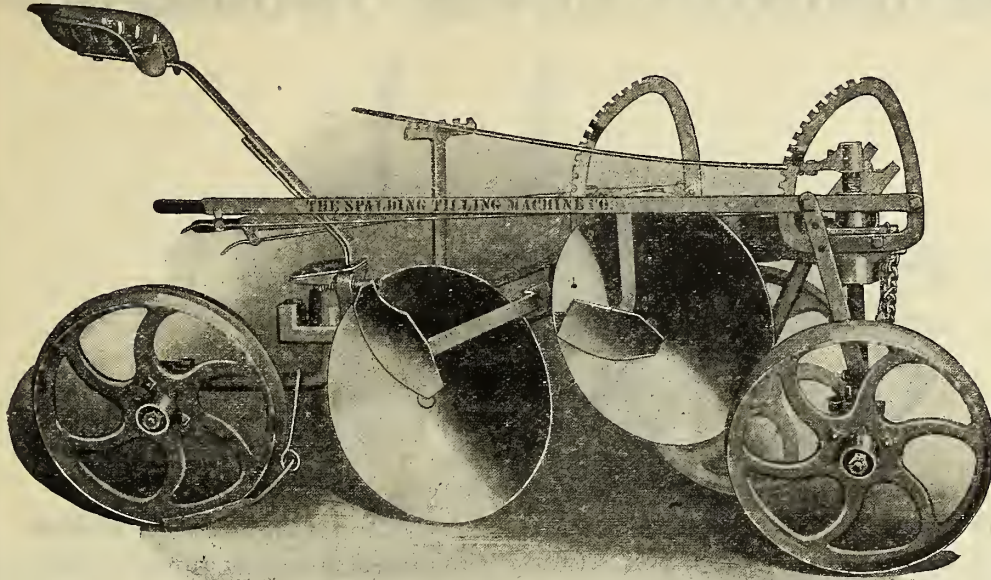
"Cutaway" Smoothing Harrow.



While a large per cent. of the users of "Cutaway" harrows find their machines leave such a smooth, finely pulverized seed bed that a smoothing harrow is not exactly necessary, we recommend this smoother to follow the "Cutaway" harrows. We know that the last degree of perfection in a seed-bed pays, and that the "Cutaway" Smoothing Harrow will secure for you that perfection. It combines the merits of the spike-tooth harrow and the plank drag. The teeth dig, tear and pulverize, and the plank levels, smooths and packs. Observe the handle, which gives the driver perfect control over the plank and makes it easy for him to carry large or small quantities of soil into the hollows. Also note the steel spring by which the plank is attached. This "Cutaway" Smoothing Harrow is made in two sizes: 6-foot, for one horse; 8-foot, for two horses.

Price on application.

THE SPAULDING DEEP TILLING MACHINE.



Especially designed and adapted for plowing, pulverizing and mixing the top and bottom soils together, to a greater depth than heretofore accomplished by any mechanical means, or by any implement (besides the spade), and to prepare a perfect seed-bed which will conserve the moisture, improve the

physical condition of the soil, increase the crops and enhance the value of the farm at a single operation.

PRICE ON APPLICATION.

ADRIANCE SPRING TOOTH HARROW.

The **Adriance** Spring Tooth Harrow has been a continual success from the day it was first put on the market. For the man who wishes the best, it is a highly satisfactory tool.

Adriance Frame Bars are of heavy channel steel, two inches wide, stiff and substantial. The frames are carried high above the ground, affording sufficient clearance and avoiding obstructions.

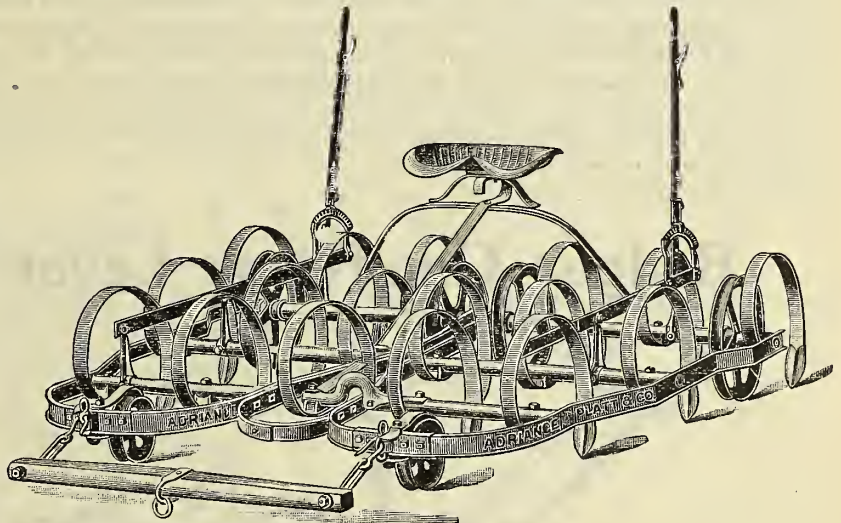
Tooth Bars.—The tooth bars are heavy steel tubing, one and five-eighths inches in diameter and proportionate weight. Large malleable trunnions are riveted in the tooth bars and pass through the frame, being secured laterally by a washer and cotter. The tooth bars turn freely in the frame bars, yet hold the frame firmly together.

The Spring Teeth.—The **Adriance** teeth are spring steel, hardened in oil, and every one is tested before leaving the factory. The greatest precaution is taken to prevent fault and the hard usage they will stand in actual work proves the **Adriance** are the best. They are one and three-quarters inches wide, and to do the heavy work expected, they cannot be lighter and make a successful tool.

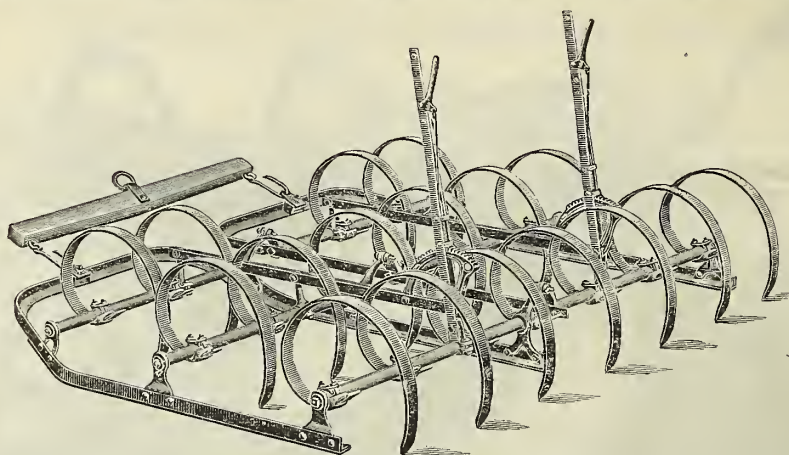
The Tooth Fastenings are the simplest and best in use. As the tooth is shaped to wrap closely around its bar, this fastening, one bolt and reinforcing washer, holds it securely.

Arrangement of Teeth.—An improvement peculiar to the **Adriance** harrow is a tooth between the sections at the front of the harrow; it prevents stones or large lumps from passing between the sections and clogging the harrow. The teeth will not trail; each keeps its line and does its work. The two-section harrow is very flexible and follows uneven ground closely, leaving its entire width of evenly cultivated ground.

PRICE ON APPLICATION.



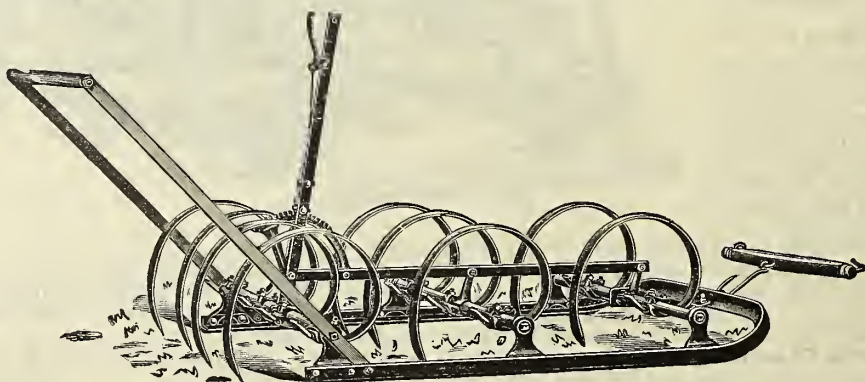
THE BADGER LEVER HARROW.



Made with 15 or 17 Teeth, in Two Sections; 23 or 25 Teeth, in Three Sections.

The frame is made of best quality angle steel. Only one runner is used in center of harrow, thereby doing away with the clogging so often encountered in harrows of two or more sections. The frame hinges are of special design, and are unusually successful, allowing the harrow to conform naturally to all conditions. Renewable steel shoes are bolted to under side of frame bars, which absolutely prevent any wear upon the frame and can be replaced at small expense. The tooth or cross bars are of high carbon steel pipe, $1\frac{1}{4}$ -inch diameter. They are attached to the malleable frame brackets by steel rods running the whole length of the pipe on the inside—an extremely strong construction, as compared with harrows that have tooth bar connections only at the extreme ends. The tooth clips are malleable and patented, and are the most successful ones in use. The bottom clip is so formed that it protects the tooth and tooth bolts from wear. When the bolts are drawn up, the tooth is gripped by the bottom clip and forced against so much surface of the tooth pipe that it is absolutely impossible for the tooth to slip or become loose. The clip is so designed that it will not slip on the tooth pipe. The clip gives any amount of adjustment desired, and allows a large part of the tooth to be used. **No holes in teeth to weaken them.** It is of the greatest importance that every tooth should adjust individually. When teeth are strained, the depth of cut is changed. When new teeth are used among those partially worn, the points must be adjusted evenly. Sometimes the lever alone will not give as exact adjustment of teeth as desired for fine work. These adjustments are impossible with teeth which are held by bolts passing through them.

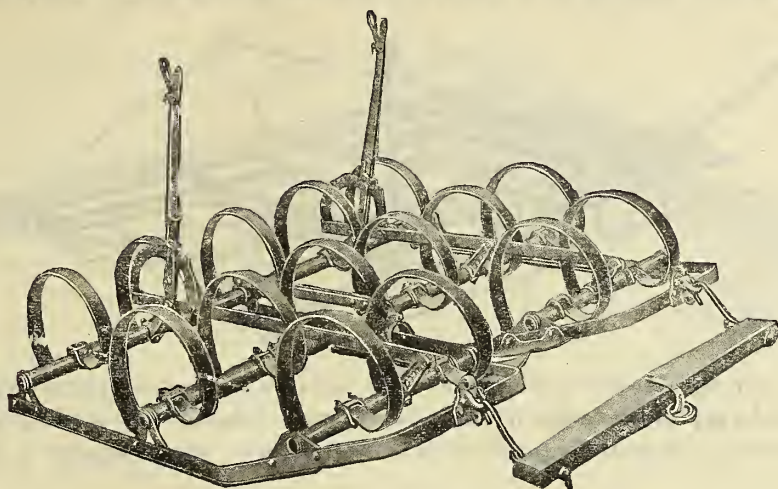
Badger One-Horse Lever Harrow.



A very popular harrow, used extensively for orchards, gardens and small farms. Made entirely of steel and malleable iron. Is controlled by the handles, as easily as a cultivator. Frame is made of angle steel, and is sloped at the front to avoid obstructions. Has renewable steel shoes.

Price on application.

WALTER A. WOOD SPRING TOOTH HARROW.



The use of the spring tooth harrow is increasing as fast as farmers find that it is a most valuable tool for loosening up the ground in the preparation of a seed bed. It is especially valuable in working soil that has been packed, as it leaves no ridges and requires less work later with a smoothing harrow. This harrow is being used in some sections as a smoothing harrow following the disc.

RELIEF SPRING—SAVES THE TEAM—PREVENTS BREAKAGE.

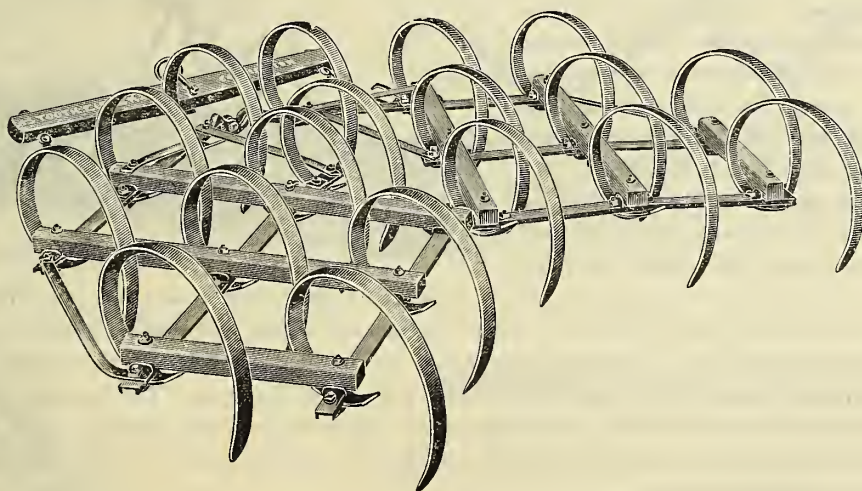
Built of the highest quality of material, I-beam frame, U-bar tooth bar. The only harrow equipped with spring which enables the teeth to yield to unusual obstructions when the adjustable lever is locked in position.

Price on application.

EUREKA COMBINATION HARROW.

16 OR 18 TEETH.

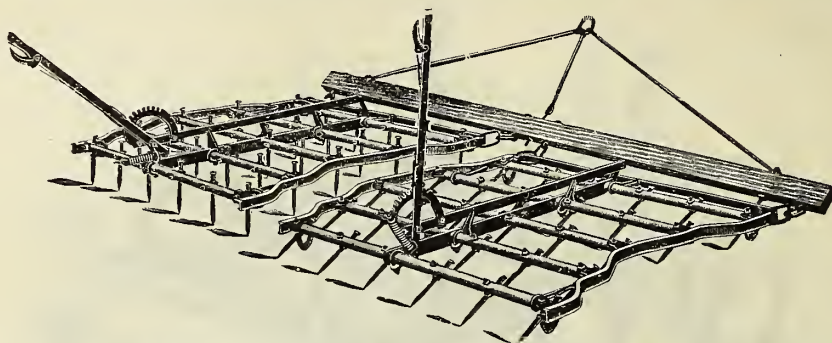
CHANNEL STEEL TOOTH BARS AND WOOD CROSS BARS.



This harrow is far superior to the usual wood frame harrow, having the long life of the all steel frame, but much lower in price. All parts that are subject to wear are steel or malleable iron. Teeth are attached to the under side of frame. The tooth clips are malleable. Neither the clips nor teeth come in contact with the wood cross bars. The "Eureka" is a perfect smoothing harrow, has the butterfly or A-shaped frame that overcomes the objectionable features of other styles that leave the field in ridges, and will fold for storing or transportation without uncoupling.

Price on application.

SATTLEY CLOSED-END SMOOTHING HARROW.



This style of harrow is especially adapted for use in orchards, as the closed end of the frame allows the ground to be worked **very close to the trees**, without danger of damage from catching the tooth bars.

Only the best steel is used in the construction of these harrows, which also adds to their strength and durability.

The teeth are made of tempered steel. They have a wide curved flange shoulder, which fits snugly against the under side of the bar, while a threaded head passes through the bar and is held securely by a nut on top.

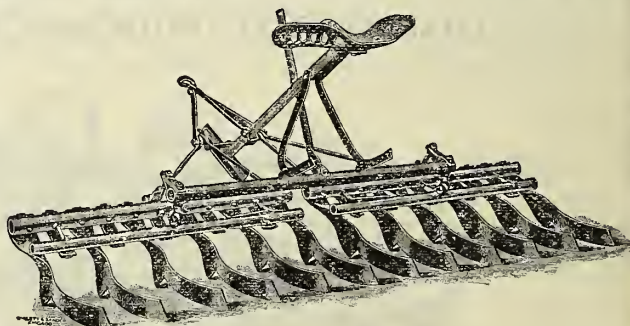
The levers are conveniently placed and easily operated while the harrow is in motion. They provide for giving the teeth any desired slant.

The harrow is built in twenty-five and thirty tooth sections, each section independent in itself. We can furnish draw bars for working two, three or four sections together, as may be desired.

Price on application.

ACME PULVERIZING HARROW, CLOD CRUSHER AND LEVELER.

The coulters on the "ACME" Pulverizing Harrow work down between the furrow slices, filling the air spaces with finely pulverized soil. The lumps and clods are entirely broken up and pulverized. Trash or stubble that has been plowed under is not dragged to the surface, but is left beneath the surface, where it rapidly rots and adds humus to the soil. The seed bed prepared by "ACME" Pulverizing Harrows is well compacted so that the seed will germinate rapidly, the surface is finely



mulched so that all moisture is conserved. The user of the "ACME" Harrow will find that, although the season be dry, the seed bed prepared with an "ACME" Harrow will attract and retain sufficient moisture to carry it through to a successful crop. All parts of the harrow are steel and practically indestructible. The coulters are made of a special mixture of several kinds of steel and are oil hardened. The frame of the harrow will last indefinitely, and after the coulters have been worn out new ones can be procured, which will make the harrow just as good as when it originally left the factory. We carry in stock "ACME" Harrows made to cut 6½ ft. and 8½ ft., in sizes as follows:

Standard,

No. 17.

No. 23—Flexible.

No. 26.

Prices quoted on application.

THE "KEYSTONE" ADJUSTABLE WEEDER.

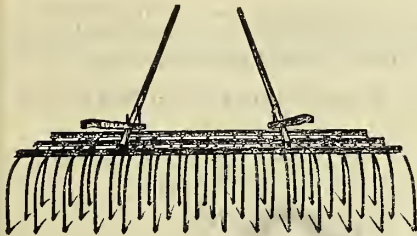
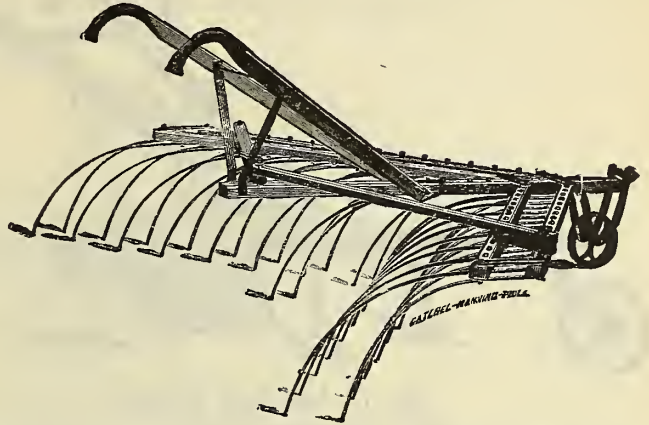
The "Keystone" is the only weeder that is adjustable to depth and width. It can be used as a shallow cultivator, working close to the plants, between the rows, until the crops mature.

Will not clog. The long, curved, spring teeth are so placed and shaped that clogging is impossible.

Can be weighted down and teeth will stand 150 pounds pressure.

Can be expanded to 7½ feet and narrowed to 30 inches.

Price on application.



Eureka Flat Tooth, Three Bar Walking Weeder.

Is equipped with flat teeth, which are especially adapted for forming dust mulch, as they cover more surface than round teeth. The frame is angle steel, and teeth are attached with especially designed clips. Teeth removable to admit working between rows when desired.

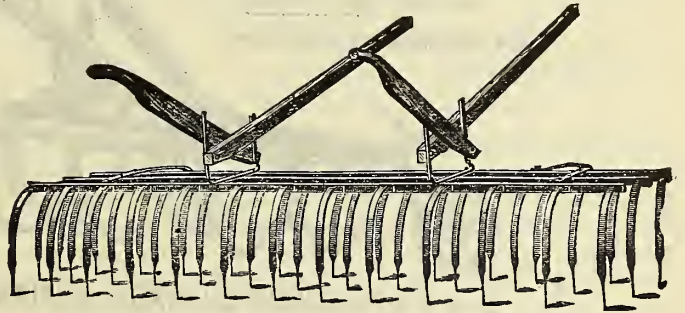
Price on application.

THE "K. & W." WEEDER.

The attention of farmers is called to the great saving effected in time and labor by using the K. & W. Weeder.

One of the best machines for level cultivation, will not injure the roots of growing crops, but kills out the weeds, and leaves a fine mulch on the surface of the ground.

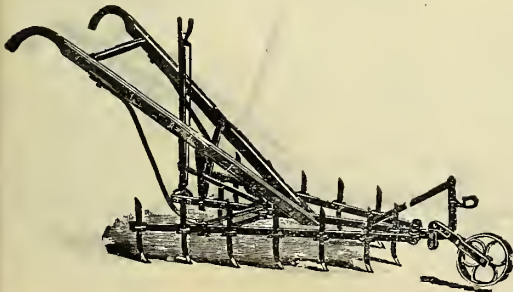
Price on application.



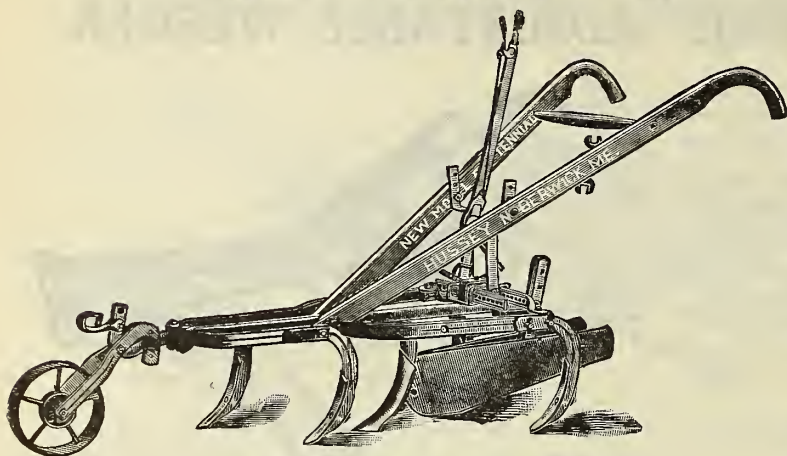
DIAMOND TOOTH CULTIVATOR.

As plainly shown in cut, the teeth are diamond shaped with a small cultivator tooth forged on one end—steel, of course. For very close work, every other tooth can be quickly removed. Cultivating width when equipped with lever expander, 34 inches.

Price on application.



"NEW MODEL CENTENNIAL."



No. 1. New Model Cultivator.

The "New Model Centennial" Horse Hoe, Cultivator and Coverer combined has long been recognized as an implement of unusual merit. The simplicity and fewness of parts required for changing it over to suit the various kinds of work to which it is adapted, and its unique and very efficient expansion lever, are among the reasons for its popularity.

An important improvement has recently been made in the one-inch reversible points for this cultivator. The illustration at the right shows the improved point with the strengthening flanges. It will be readily seen that the flanged point is not only much stronger than the old style, but the flanges prevent the point from swinging around on the standard in rough and rocky land.

Equipped with eight of these narrow flanged points, the No. 8 is one of the very best pulverizing cultivators on the market.

No. 8. An extra implement at small additional expense.

The regular 5-tooth Horse Hoe, Cultivator and Coverer combined (No. 1), or an 8-tooth Pulverizer, on same frame.

The long frame of the "New Model Centennial" allows us to add the extra teeth without danger of clogging.

No. 8

has 8 1-inch points,
long wings and lever.

No. 1

has 5 3-inch points,
long wings and lever.



Back of Improved
Point, 1 inch wide.

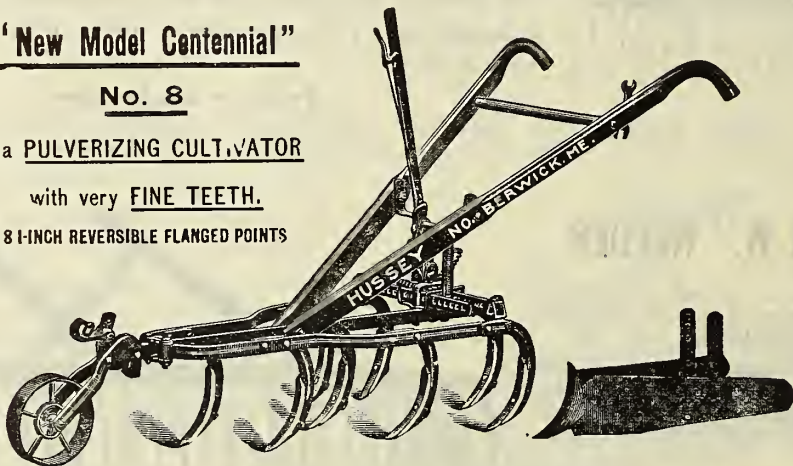
"New Model Centennial"

No. 8

As a PULVERIZING CULTIVATOR

with very FINE TEETH.

HAS 8 1-INCH REVERSIBLE FLANGED POINTS



No. 8 as a PULVERIZING CULTIVATOR with FURROWING WINGS DETACHED.

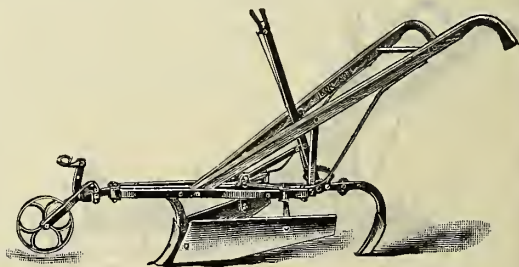
Price on application.

DIXIE CULTIVATOR

with Hilling Attachment.

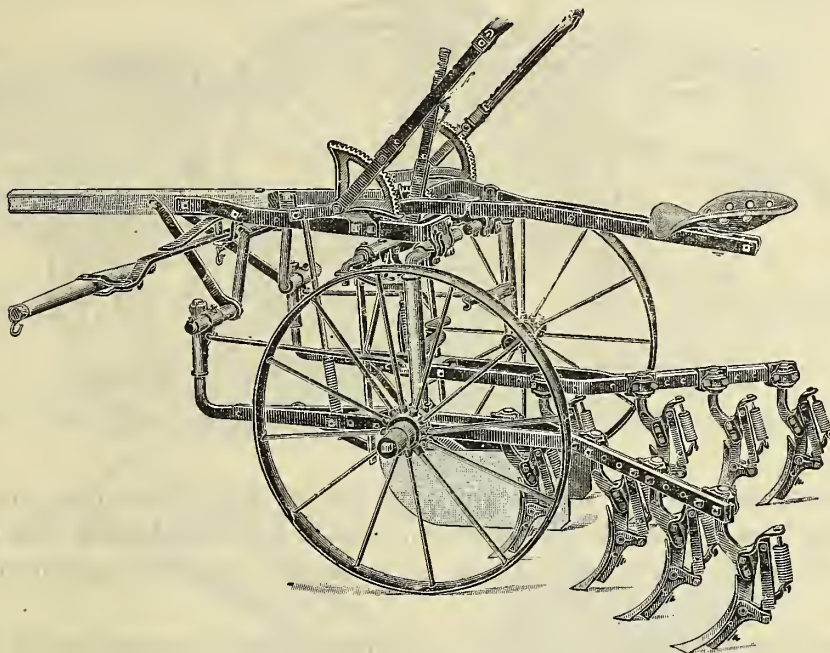
The hilling attachment is applied by simply removing four standards and placing the standard of the hiller on the middle bar and attaching the short standards of the blades to the side bars. This attachment is used in cases where higher ridging is desired than what can be accomplished with the regular horse hoe blades.

Price on application.



SATTLE'S NO. 40 PIVOT WHEEL, SPRING TRIP CULTIVATOR.

Strong—Simple—Easily Operated—Readily Adjusted.



REASONS FOR BUYING THE SATTLE CULTIVATOR.

Low, strong wheels.

Heavy concave tires.

Long wheel boxes.

Dust-proof and self-oiling boxes.

Wheels easily pivoted.

Frame solid bar steel.

Cultivator made entirely from steel and malleable iron.

Gangs adapted to stand heavy strain.

Gangs adjusted from seat.

Cultivator turns in small space.

Width of rows quickly changed.

Abundant clearance.

The Sattle is particularly adapted to the requirements of truck gardeners, potato farmers or general farmers, and is an especial advantage in cultivating hilly ground or very crooked rows. It is constructed entirely of steel and malleable iron. This naturally gives it extreme strength. The construction throughout is so designed that each piece and part assists in bracing and strengthening the general make-up of the implement. The frame is of one solid piece of heavy bar steel. There are no bolted corners or connections to work loose or to spring under excessive strain. The wheels being low (32 inches), naturally compel the cultivator to respond very quickly to the guiding of the foot stirrups, and the wheels are very easily guided because the pivoting points of the axles are practically opposite the center of the wheels and operate upon hard steel bearings. The width can be quickly changed as required for cultivating rows of any distance from 28 to 48 inches apart.

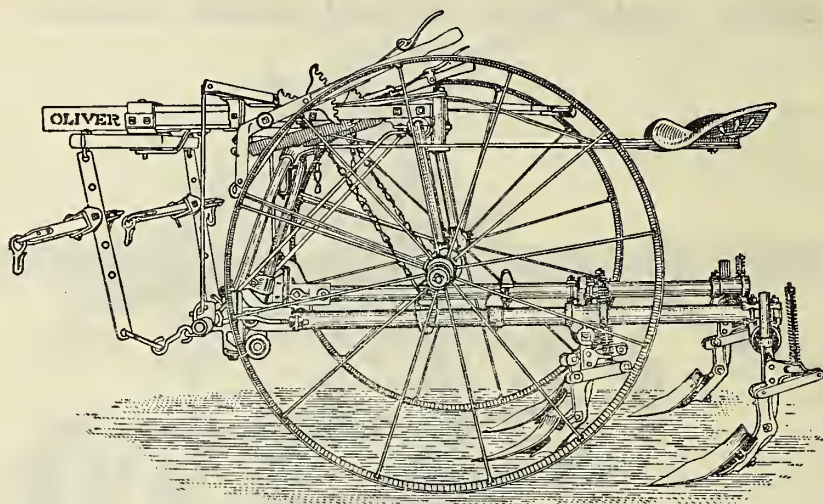
EQUIPMENT.

The No. 40 is equipped regularly with eight spring hoe standards, with 2½ inch double edge points, which are exceptionally well designed and operate perfectly.

Disc Attachment. This attachment is used for ridging, and also for turning the soil from growing plants, or for covering. The discs are attached to the inside of each gang and work up close to the plants. The discs may also be reversed and used for *hilling*, in which case a tied rod is used, which is furnished with the cultivator, and which will keep the cultivator gangs from spreading. They are a great advantage for the purposes for which they are intended.

Price on application.

OLIVER RIDING CULTIVATOR, No. 1.



This cultivator has not only satisfactorily met factory tests, but it has gone out in the field and shown what it could do, and how well it could do it, and having been on the market here and in actual service during eight entire seasons, our field tests have been most extensive.

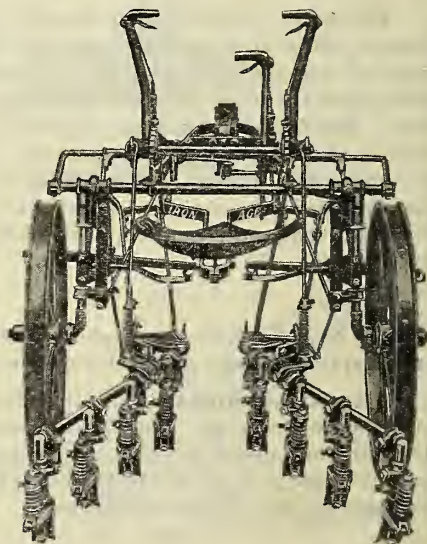
The pivotal seat bar guides the frame and gangs, making unnecessary the use of hand lever, or complicated pivotal foot levers. The guiding of the cultivator, independent of the horses, is completely under the operator's control and the seat bar guide also automatically keeps the cultivator from drifting on hillsides, making it one of the easiest guiding cultivators made.

Price on application.

"IRON AGE" RIDING CULTIVATOR.

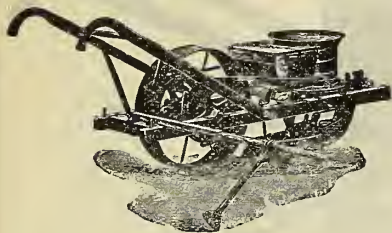
Pivot wheels, gang-adjusting lever, strong steel wheels, and, although it is light and simple in construction, it is very strong, and possesses advantages not contained in far more complicated tools.

Price on application.



THE KING OF THE CORN FIELD CORN PLANTER and FERTILIZER DISTRIBUTOR.

PLANTS CORN, BEANS, PEAS, BEETS AND OTHER SEEDS OF LIKE SIZE.

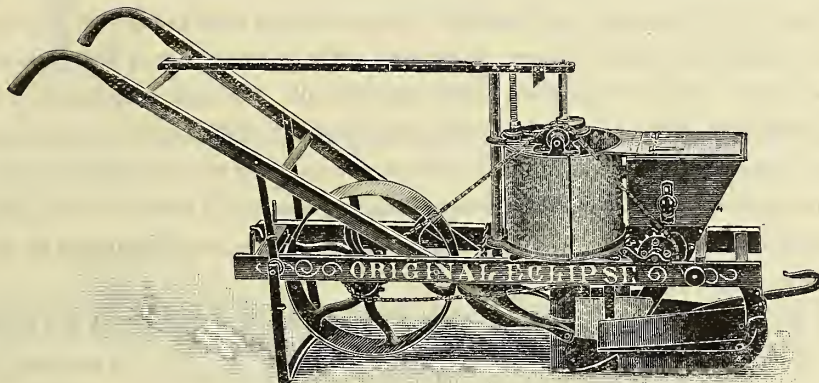


This planter is perfectly adapted to every requirement; durable and simple in construction, not liable to get out of order, and is arranged to drop any desired quantity of seed or fertilizer at a time, at equal and various distances apart, in hills or drills of uniform depth. The seed-dropping device is positive; never misses or skips a hill.

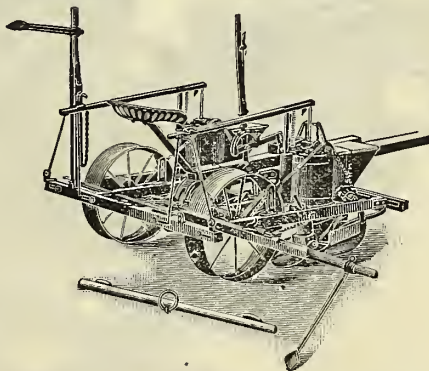
Price on application.

ECLIPSE CORN PLANTER And Fertilizer Distributor.

For Planting Field or Ensilage Corn, Beans, Peas or Beet Seeds in Hills or Drills.



ECLIPSE DOUBLE ROW CORN PLANTER.



ACME

Rotary Automatic Hand Corn Planter.

**For planting corn, beans,
peas and similar seed.**

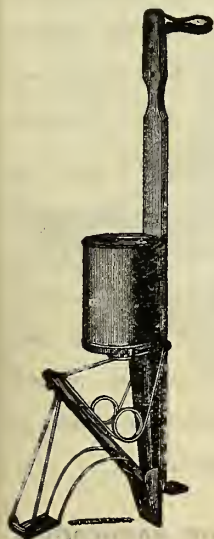
Capacity of hopper, two
quarts.

Price, \$1.75.

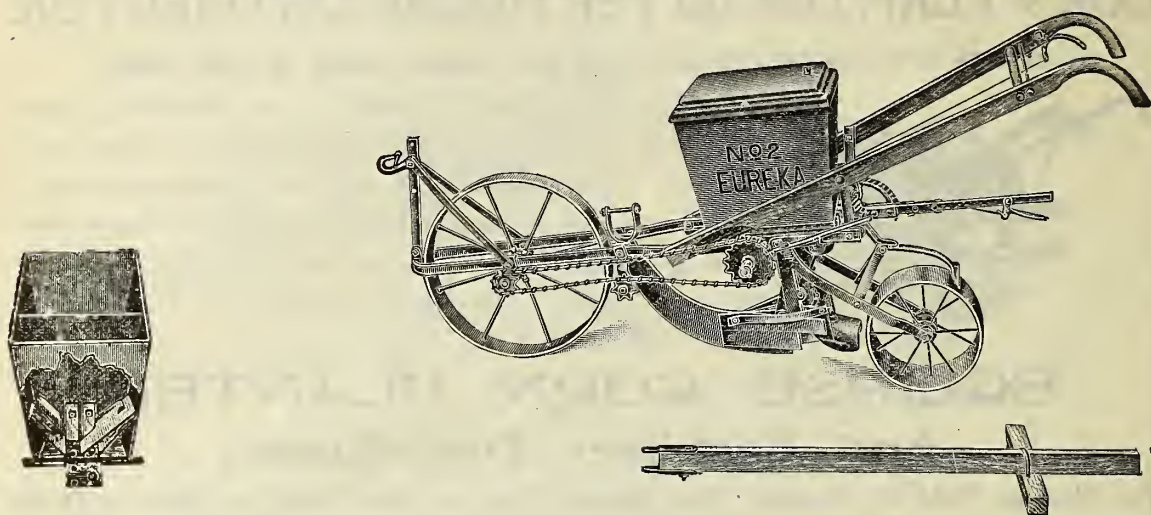
Will distribute from 50 to 600 pounds fertilizer to the acre. Can be adjusted to make the rows 36, 38, 40 and 42 inches apart.

Plows can be adjusted to plant corn from one to four inches deep, as desired.

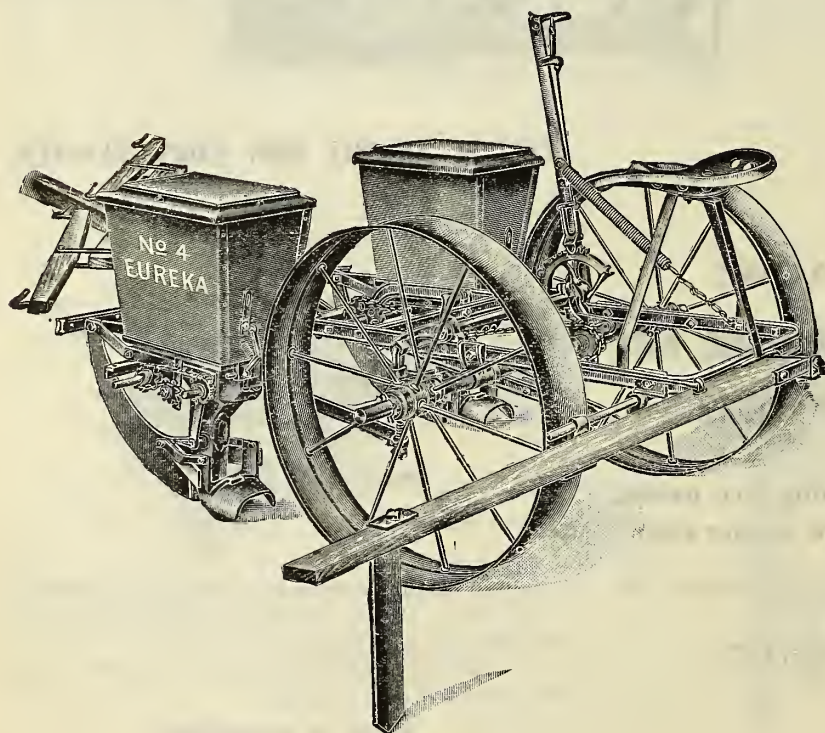
Price on application.



EUREKA CORN PLANTERS.



The material used in constructing these planters is almost entirely steel and malleable iron, making a long lived planter with small cost for maintenance. Lock steel chain is used. Nos. 2 and 4 planters have interchangeable parts, and the general description applies to them all. The seed droppers have holes of various sizes with which to deposit seed in the furrows. Brushes remove all surplus seed from the dropper, and prevent any skipping. These planters will drill in continuous rows or drop automatically in hills. No. 2 only is equipped with row checking device. Will plant any ordinary sizes corn or beans, and will plant them alternately (first a hill of corn and then a hill of beans), if desired. Special attachment may be had to sow small seeds, such as turnip, onion, etc.

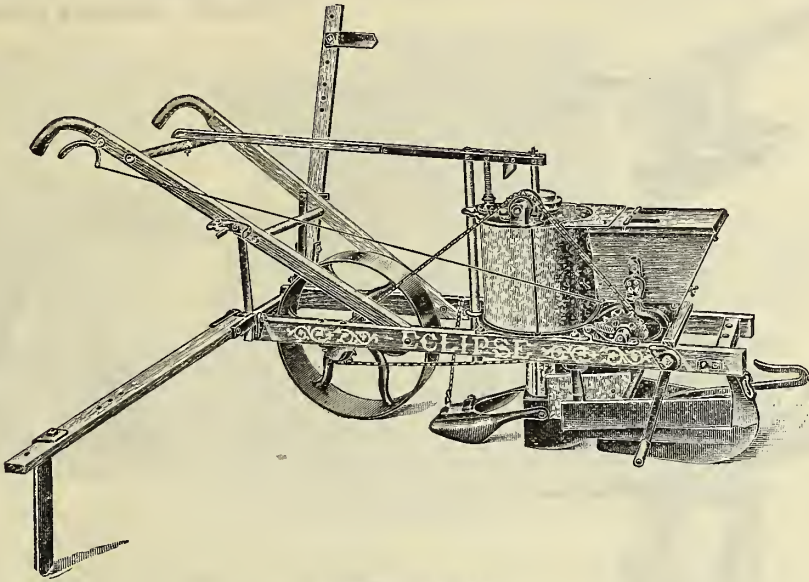


When desired, two kinds of seed may be carried separately in the Eureka hopper at the same time and can be dropped alternately. Fertilizer does not come in contact with, but is deposited on each side of, the seed.

The Wizard Force Feed is positive and adjustable from 115 to 800 pounds per acre, and is unquestionably the best fertilizer feed manufactured, as it will handle ashes and plaster as well as fertilizer.

Price on application.

EUREKA CORN PLANTERS—Continued.

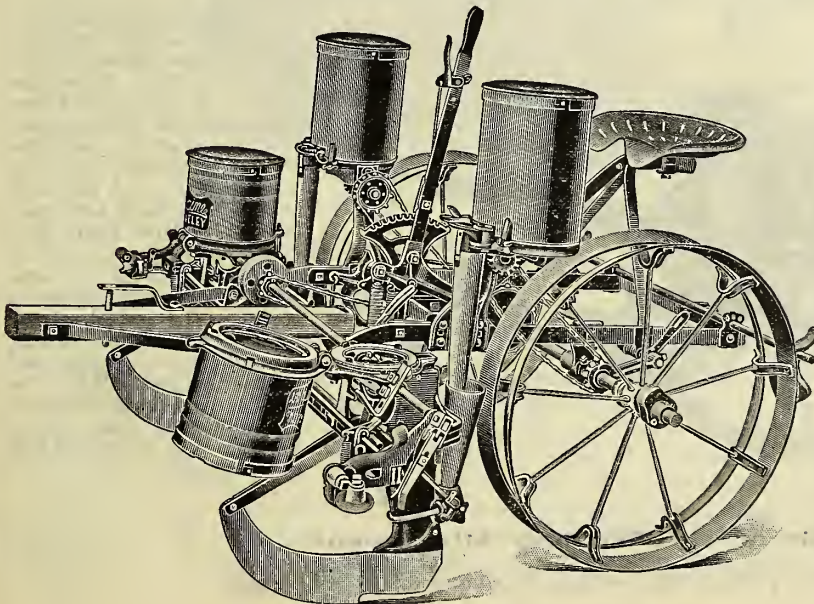


Eureka Eclipse.

The Eureka Eclipse has been on the market for the past twenty-five years, and during that time has established an enviable reputation.

Prices on application.

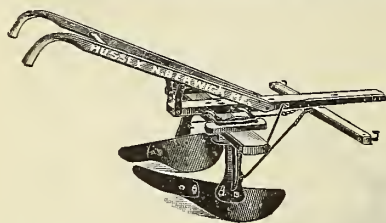
SATTLEY TWO=ROW CORN PLANTER, WITH FERTILIZER ATTACHMENT.



Has a rigid frame to which all parts are securely bolted and braced. The heavy steel runners are extra long, with an easy curve that prevents becoming clogged with trash. The gauge wheels are adjustable for depth as desired. The large press wheels act also as drive wheels, and their very broad face provides abundant traction for operating the fertilizer and dropping mechanism. Both flat and edge drop plates in large, medium and small sizes are furnished regularly with each planter. Special plates can be furnished at small extra cost for planting peas, beans and small seeds.

Price on application.

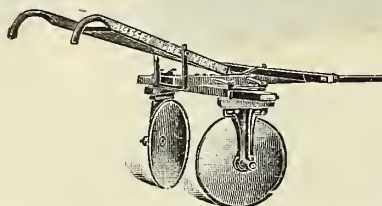
IMPROVED POTATO HOE, Furrower, Marker and Coverer.



The Improved Potato Hoe is, as its name indicates, especially adapted for hilling potatoes, banking celery, and also as a coverer. It is much used as a "marker" for different crops.

"K. & W."

IMPROVED 20-INCH DISC POTATO HOE.



Considered by many farmers the best hoe made for hilling and covering. A distinct departure from the styles commonly in use, the large discs doing smooth and perfect work.

Price on application.

EUREKA POTATO CUTTER.

Cuts Uniform Size. Prevents Waste of Seed. Reduces Labor.

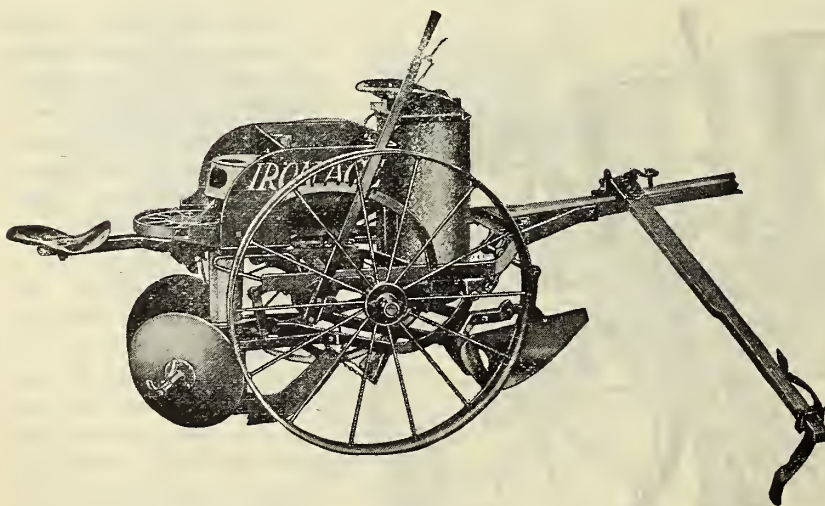
The Eureka Potato Cutter is the only machine made that will save the potato grower so large an amount of the labor and eliminate so much of the unpleasantness and drudgery of cutting seed. It meets the requirements of the most exacting by cutting the seed uniformly in size and shape, producing a size that is approved by the most successful growers and saving the waste occasioned by the irregularity of hand cutting. By operating with the foot, both hands are free for feeding. Three knives are placed crosswise and one lengthwise, with spring pressure guides on both sides, making a pocket into which the potato is easily placed in the position desired, and which centers the potato on the knives when the pressure block is forced down.

The Eureka will cut a bushel of clean and uniform seed in five minutes.

Price on application.



THE "IRON AGE" (Improved Robbins) POTATO PLANTER.



This planter is one of the most thoroughly constructed machines offered to the farming public. It is carefully made of the very best materials and consequently is strong, durable and thoroughly practical. It does not injure the seed, although it is all handled automatically. It places every seed piece exactly as you want it. It sows fertilizer at the same time, but none of it where it touches the seed. It is light weight, light draft, strong, compact and is easy on the horses. With the boy on the rear seat you can be absolutely sure that a seed piece is in every place and one only.

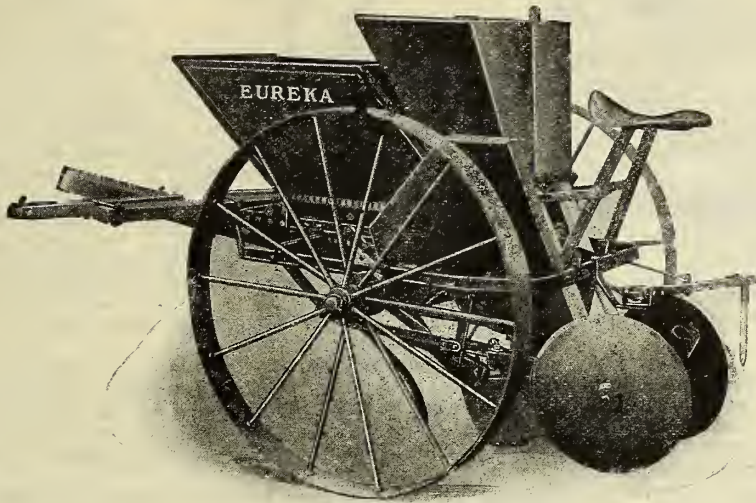
Plain or with Fertilizer Attachment.

No. 1.—Potato planter with fertilizer distributor (plow with shield).

Price on application.

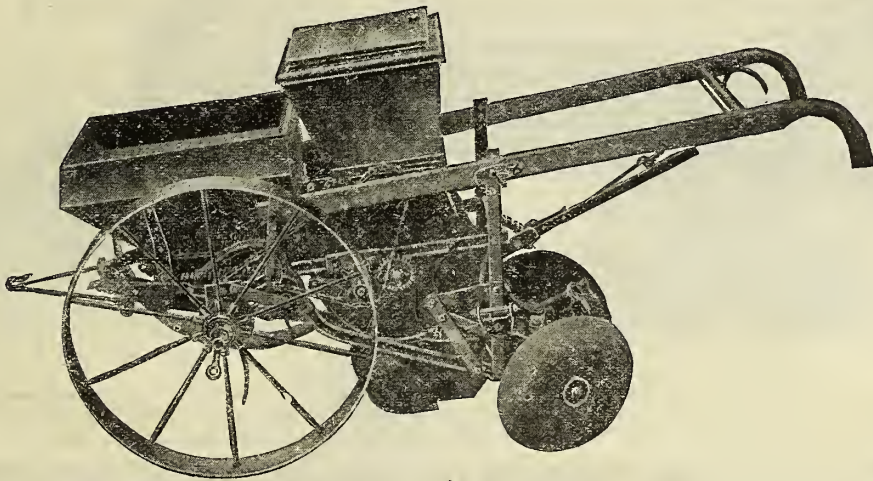
EUREKA POTATO PLANTER.

DISC OPENERS SUPPLIED WHEN ORDERED.



No. 11. One Row, Two Horse.

No fertilizer comes in contact with the potato seed. The Eureka discs are so arranged that they allow the seed to be placed, and carefully covered with soil, where it is impossible for the fertilizer to come in contact with seed, consequently there is never any loss from being burned with fertilizer. A valuable feature peculiar to this line of planters.



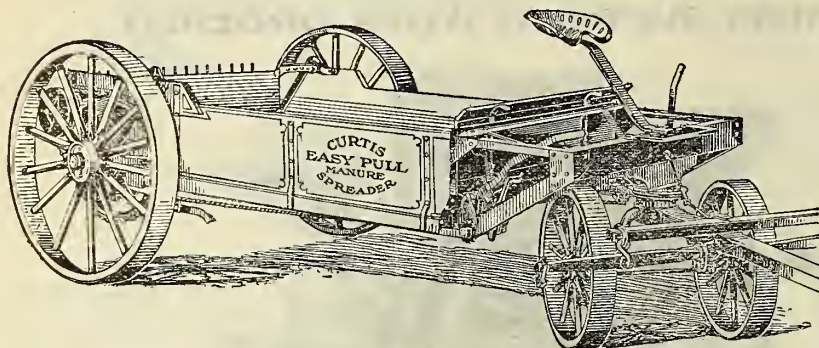
No. 9. One Horse.

All Eureka planters are light weight. Main frame is made entirely of steel. Lightest draft. Wheels are higher and have wider tire than other makes. Under perfect control of driver. Does not require two men. Seed pickers in plain view. No guessing about accuracy. Plow placed directly under axle, and always runs at uniform depth. Covering discs close to plow. One lever puts machine in and out of gear, and raises and lowers plow and discs. Planter is perfectly balanced. No neck weight. Seed hopper feeds automatically to picker box. Pickers are special construction and perform more accurate planting and uniform spacing than other styles. Pickers do not squeeze, crush or bruise the seed. Sprockets are easily attached to change the distance of dropping seed. All working parts of planters are in plain view of driver. Eureka planters are sold with and without fertilizer attachment.

Price on application.

THE "CURTIS EASY PULL" MANURE SPREADER.

MADE IN THREE SIZES.



This new spreader, the "Curtis Easy Pull", is not a departure from the "Worcester Kemp", but a logical development of it, with a new feature of breaking the load in front of the beater and consequently a saving of the pull on the horses and the strain and wear on the machine.

Every effort thus far to reduce draft of a manure spreader has been directed toward the reducing of mechanical friction only; but now another step has been taken, the first in the real reduction of draft.

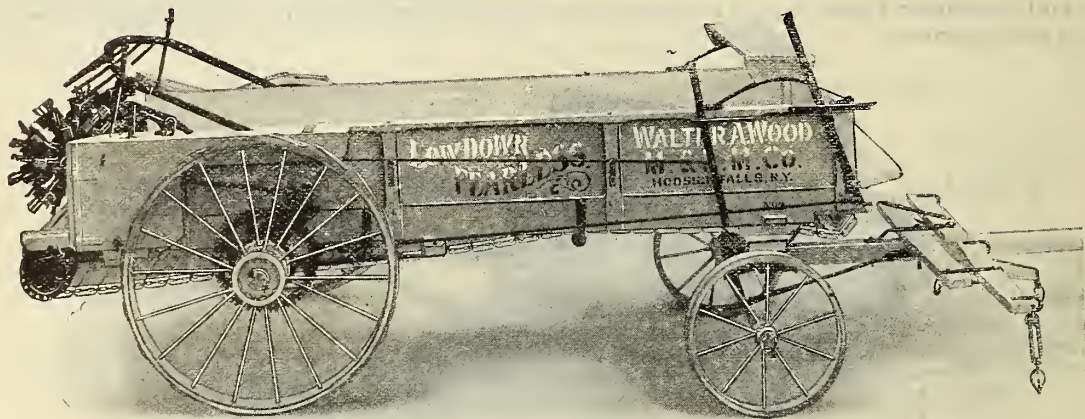
A spreader is here that performs part of the work formerly done by the horses, without the expending of any power.

The load splits directly over the "hump in the floor" (a new feature). The beater catches it, already partly broken up. The beater does not have to tear the manure out of the load. The hump in the floor prevents the load from packing on its under side in front of the beater. The beater teeth raise the manure out and do not pack it back into the load. The load does not come up under, but comes down on to the beater. No pulverizer to prevent loading over the rear end. When loading, end gate is down; when spreading, end gate is raised and acts as a pulverizer.

With the spreader is supplied whiffletree, neck yoke, and complete set of tools, and when wood wheels are shipped, mud lugs for icy or muddy soil are supplied.

Write for quotations.

"FEARLESS" MANURE SPREADER.



These are the reasons why you will buy a "Fearless": Solid construction, circular beater, widest, most even spread, axles under body, low body, light draft, front truck swings under body, automatic circular rake that levels any load, two levers to control all operations, adjustable spread, ease in handling.

THE "FEARLESS" IS BUILT TO LAST.

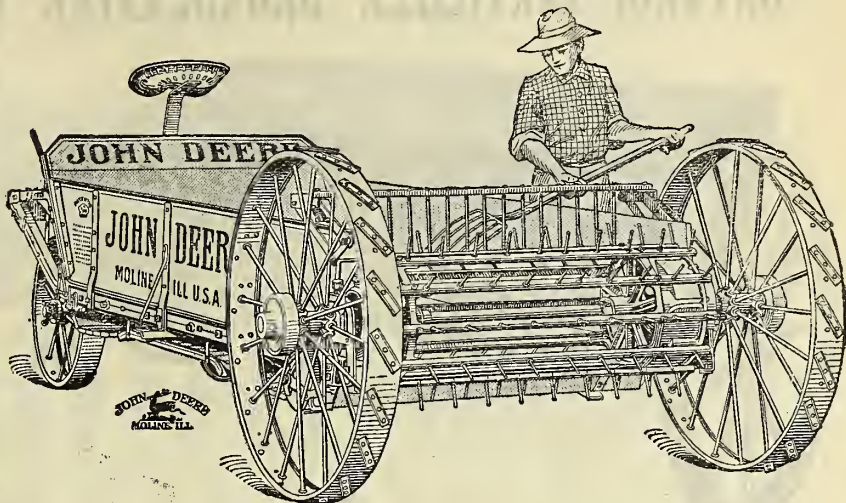
The sills are of ash and oak, because they stand the strains and vibration better than steel, and are just as stiff and strong. The frame is braced at all points, so that there can be no warping or twisting and no binding of the apron to make draft heavy. The beater and beater-drive mechanism are so strong that we have known the "Fearless" to spread a load of cobblestones as big as your two fists. Yet the beater is so well balanced that, with gears off, it can be turned by the pressure of your little finger.

The draft is very light for several reasons. The distance between hitch and rear axle where power is taken is shortest. The apron cannot bind. The beater is perfectly balanced. The load is over the wheels, giving maximum traction. The worm drive never clogs nor springs out of alignment. The box tapers. The front and rear wheels track because the front truck is full width. The tires are wide and both rear wheels drive. Because of wide spread, the wheels never run on the last strip spread and do not slip. The beater does not attack the manure broadside. In securing low body nothing of light draft, wide spread or even spread has been sacrificed. While one or two spreaders have a little lower body, they cannot compete with the "Fearless" in any other respect.

Price on application.

JOHN DEERE SPREADER.

The John Deere Spreader—the spreader with the leather on the axle—has only one-half as many parts as the simplest spreader heretofore manufactured. All its working parts are mounted on the rear axle. It has no chains, no clutches and no adjustments. Being low down, it is easy to load. The manure is taken from in front of the main axle and delivered at the rear of it. There are no clutches to give trouble, no chains to get out of line, and no adjustments to be made. All the strain and stress of spreading is borne by the axle, and none of it is transmitted to the frame or the body of the machine itself. It is simply a wagon when out of gear.



Wheels at the rear of the machine do not interfere with loading. The entire side of the spreader is accessible for that purpose.

This spreader has from one hundred to one hundred fifty types of castings less than the simplest spreader heretofore made. As the machine is low down, it is only necessary to lift the manure thirty-eight inches in loading, as high as your hips. Each forkful of manure can be placed where it is wanted, because it is possible to see into the bed at all times. Loading the spreader evenly assists greatly in insuring uniform spreading.

The John Deere Spreader is very simple—it does not get out of order, and is always ready for business. Anyone can operate it.

Write for quotations.

"NEVER MIND THE WIND—SOW ANY TIME." THOMPSON GRASS SEEDER.

This is really the greatest grass seeder made to-day. Not a toy, but a strong and durable implement specially designed and adapted to its use. It's easy—it only weighs 45 pounds. Does not throw the seed into the wind. Puts it on the ground lightly and evenly where it belongs, insuring the operator a good even catch. Strong and durable. We know of Thompson Seeders which have been in use 30 years which are thoroughly good and effective to-day.

"THE ORIGINAL"
WHEELBARROW.

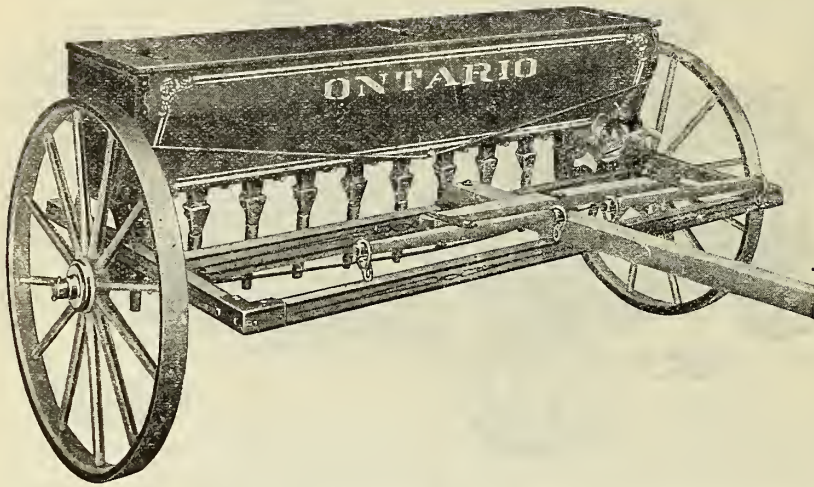


WHEELBARROW SEEDERS

are a most valuable implement for sowing all grass seeds broadcast. The quantity of seeds sown per acre is accurately governed by the wheel, which moves correspondingly slow or fast as the machine is run over the ground. For all sections where winds prevail, there is no machine made that will equal this implement for an even, accurate job of seeding. The quantity required per acre can be instantly changed by slipping a pin from one hole to another. These seeders run light and are not complicated. Seeds can be sown mixed or separate and in any quantity desired.

12 and 14 feet.
Price on application.

ONTARIO FERTILIZER BROADCASTER AND ROWER.



Is the only positive force-feed machine of its kind made in which the conductors have a lateral adjustment.

Its use is not confined to plaster, bone dust and other mealy fertilizers, for it handles lime and all commercial fertilizers, and is the best device known for handling those of home manufacture.

Sows broadcast or in any width of rows from eight

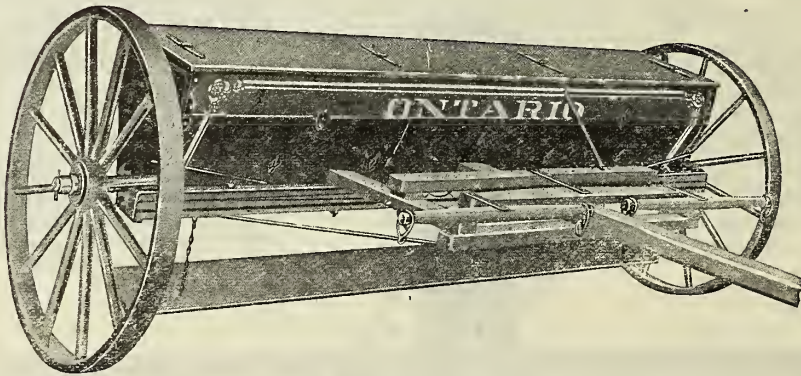
inches up to five feet, in quantities ranging from two hundred to two thousand pounds per acre.

Is equipped with a land measure that does not get out of order. It accurately measures the acres and fractions of acres sown, and is easily set at the nothing mark.

THE ONTARIO FERTILIZER AND LIME DISTRIBUTOR.

Simple, Strong, Durable.

SOWS BROADCAST.

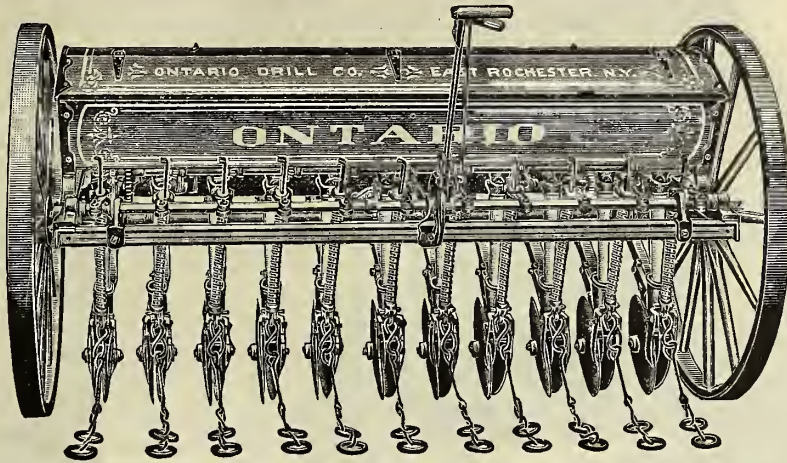


Built to meet the demand for a simple, practical and comparatively inexpensive machine with which to distribute **lime** and **fertilizer**.

The **quality** of the material used, the **workmanship**, the **design** and the **finish** are all first-class. The parts are few, and are made not only with a view to efficiency, but for strength and durability. The mechanism is of the simplest form and easily understood. It is an honest, durable and practical machine, with exceptional value for the cost. Has proved a useful, handy machine for sowing dry fertilizers such as **plaster, ashes, lime, bone dust, cotton seed meal, salt, etc.**

Price on application.

ONTARIO COMBINED (Grain and Fertilizer) SINGLE OR DOUBLE DISC DRILL.



Embodies all the special features of Hoe Drill, excepting discs are used instead of hoes. It has the same broad tread wheels, accurate grain and fertilizer feeds, heavy axle, simple feed devices, accurate grass seeder and land measure, and the same light draft.

PRICE ON APPLICATION.

Eureka Flat Tooth Mulcher and Seeder.

Made in 8 and 10 foot sizes.



GRASS BOX SOWS

Timothy, Red Top, Clover, Alsike, Millet, etc.

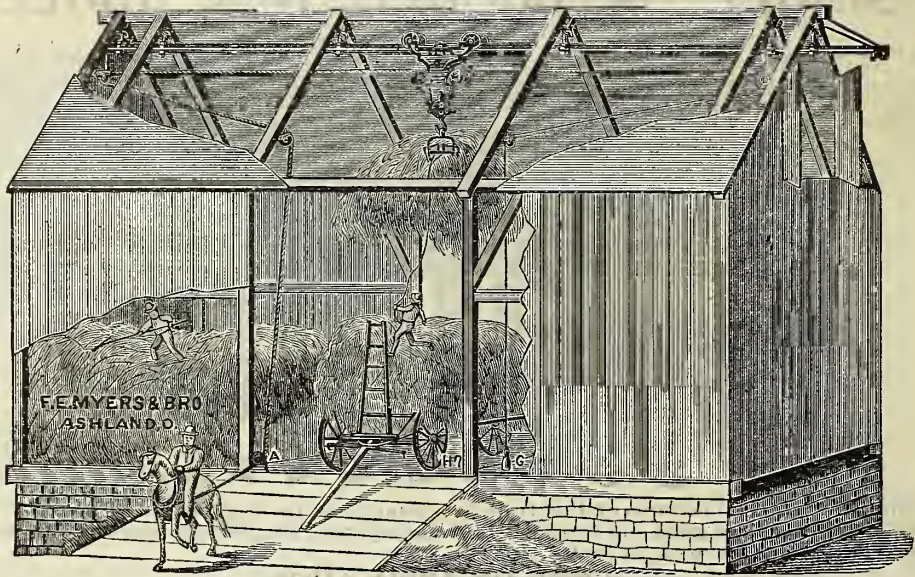
GRAIN BOX SOWS

Oats, Wheat, Rye, Buckwheat, Barley, etc.

Entirely successful broadcast seeding attachments can be attached to the Eureka at any time. Immense quantities of these are in use in many parts of the world, and they do all we claim. They accurately sow various quantities of clover, timothy, oats, wheat, rye, barley, buckwheat, etc., and the *teeth cover the seed* to any depth desired. If used on old meadows, new seed can be applied at the same time the old grass is thoroughly cultivated, insuring a large increase in yield. Grass seed can be sown after oats are up two or three inches. The distributing mechanism is made of steel and malleable iron and is very durable. It is positive in action, being driven by the ground wheel, and will not injure the seed. The price is very moderate. The grass box will accurately sow any quantity from 2 to 20 quarts of grass seed per acre, and the grain box from a few quarts to 16 pecks of various grains. The adjustment for the various quantities is easily and quickly made. Either or both boxes can be obtained at any time desired. A great number of purchasers buy both boxes, as they find same entirely satisfactory, replacing much heavier and more expensive implements. The boxes are located near the ground and the wind does not, therefore, interfere with the seeding. All sizes are light draft for two horses.

PRICE ON APPLICATION.

CUT SHOWING HAY CARRIER AT WORK.



MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARN.

FOR A 40-FOOT BARN.—One reversible carrier ; 40 feet steel track ; 21 hanging hooks ; 21 rafter brackets ; 5 pulleys ; 1 D. H. fork ; 6 floor hooks ; 110 feet $\frac{3}{4}$ -inch Manila rope ; 50 feet $\frac{3}{8}$ -inch trip rope.

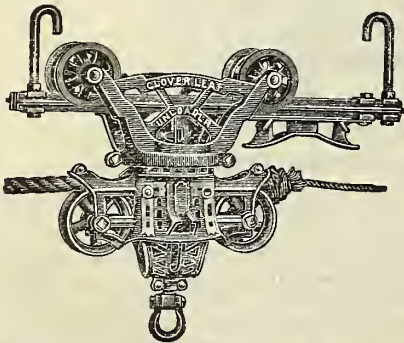
FOR A 50-FOOT BARN.—One reversible carrier ; 48 feet steel track ; 25 hanging hooks ; 25 rafter brackets ; 5 pulleys ; 1 D. H. fork ; 6 floor hooks ; 130 feet $\frac{3}{4}$ -inch Manila rope ; 55 feet $\frac{3}{8}$ -inch trip rope.

FOR A 60-FOOT BARN.—One reversible carrier ; 60 feet steel track ; 31 hanging hooks ; 31 rafter brackets ; 5 pulleys ; 1 D. H. fork ; 6 floor hooks ; 160 feet $\frac{3}{4}$ -inch Manila rope ; 60 feet $\frac{3}{8}$ -inch trip rope.

Different lengths of barns will use track, hanging hooks and rope in same ratio as above.

Above estimates of rope are for an *end hoist*. In hoisting from *center* of barn less rope will be required.

When requesting quotations do not fail to give exact length of barn, whether ridgepole or full rafter, and distance between rafters. Also state whether you expect to hoist from end or center of barn.



Myers Clover Leaf Steel Track Carrier.



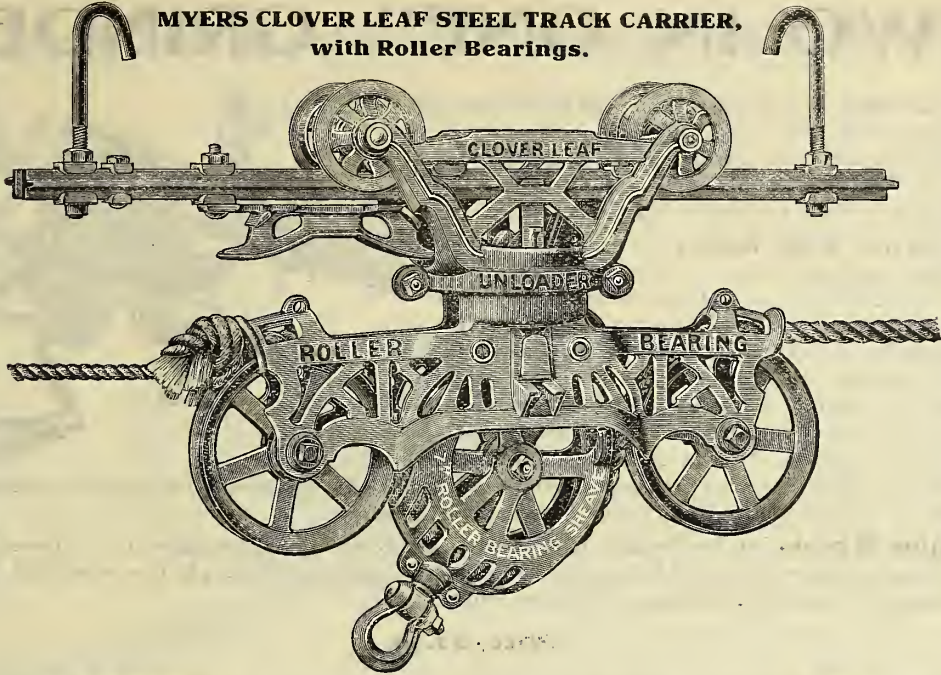
Rafter Bracket.



Rafter Bracket with Stop.

Write for quotations.

**MYERS CLOVER LEAF STEEL TRACK CARRIER,
with Roller Bearings.**



Hanging
Hook.

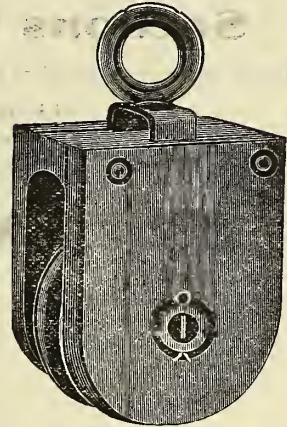
Screw Eye
Hanging
Hook.



Double Harpoon Fork.



Floor Hook.



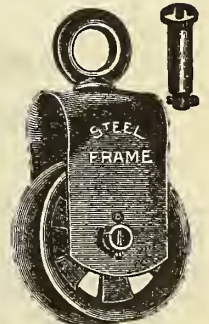
Reed Pulley with
Hook or Eye.



Knot Passing
Pulley.



Steel Rafter Grapple.



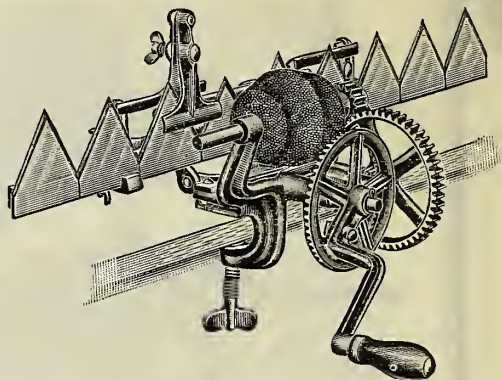
Steel Frame
Pulley.

—Write for quotations.—

"TWO IN ONE" GRINDER.

This Grinder is useful twelve months in the year—will sharpen mower knives and other edge tools perfectly. The machine is simple in construction, and extremely easy in operation—can be handily and securely fastened to bench, table or while in the field to the mower wheel.

The Mower Knife Holder is a new type, capable of any adjustment desired, and firmly holds the mower knife with two guides or rests adjustable for any width or thickness of knife backs, and requires no change after the first adjustment; the spring clamp allows shifting of the knife to any position while grinding. The entire weight of the knife is carried by the holder, and the operator has full view of the work, and easily controls the pressure and governs the grinding of nicks, gaps and any width or length or bevel without stopping for readjustment of any kind. Are equipped with vitrified corundum grinding wheels, the hardest, sharpest and fastest cutting abrasive known.





Grinding Wheels can be changed by removal of one cotter pin. The knife holder answers for a tool rest, and is made rigid with lug and belt, as shown in the illustration with straight face wheel, and thus meets all requirements for general grinding, such as axes, chisels, etc.

Price, \$3.50.

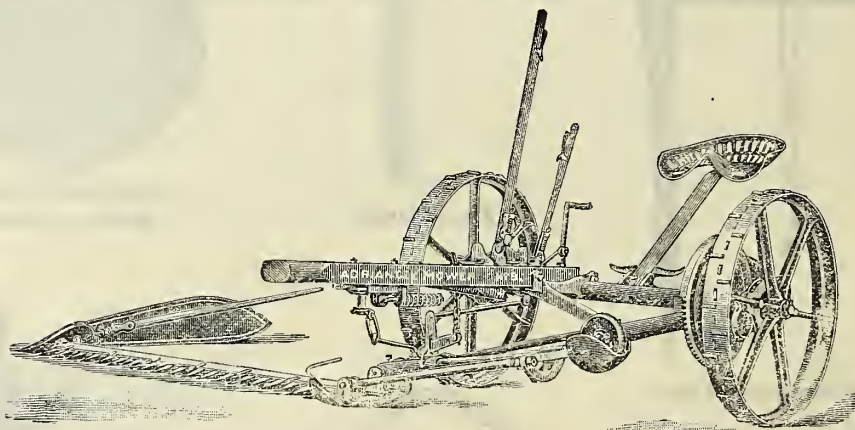
Sections for Mowers and Reapers.

Farmers can have their orders promptly filled by sending directly to us for sections for all kinds of machines.

ALL KNIVES AND SECTIONS WARRANTED.

 In ordering send size of section wanted. 

THE ADRIANCE MOWER.



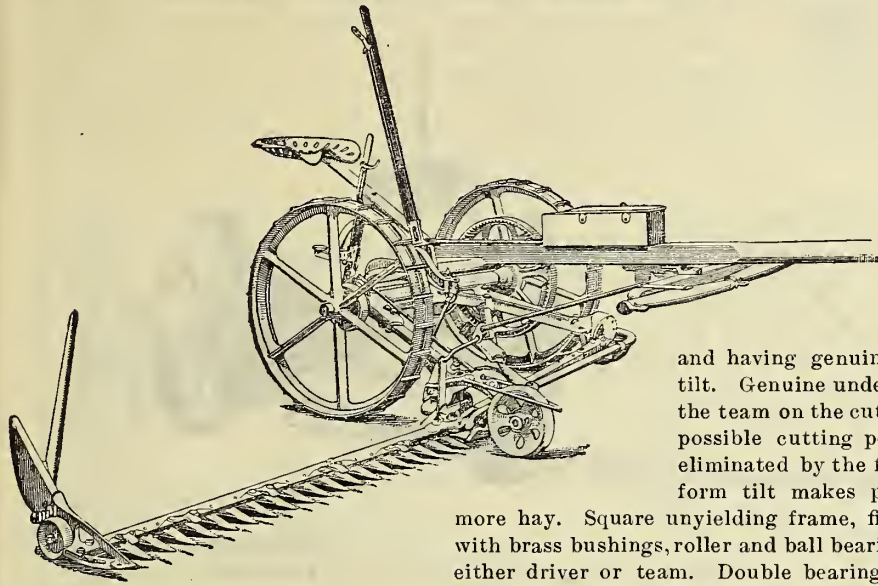
The accompanying illustration shows the **Adriance** Mower as built for 1916, and with its modern construction and perfection of design, contrasts sharply with the earlier models of the **Adriance**. While these old-time machines (the first of which was built in 1858 and which was still running in 1901, and the second which was built about 1863) are widely different in appearance, having the heavy oak frame and the wooden wheels, yet the underlying principles of the construction of the **Adriance** Mower have been the same since its invention in 1855.

The first mower was built with the square-cut gears, which were later supplanted by the internal gears, quite similar to those still in use. The floating bar with the coupling hinges in line with the crank shaft was the most notable feature of the **Adriance** Mower of 1885 and is to-day one of the most important features found exclusively on **Adriance** machines.

Price on application.

The Walter A. Wood Line of Machines and Implements for the Farm.

ADMIRAL MOWER.

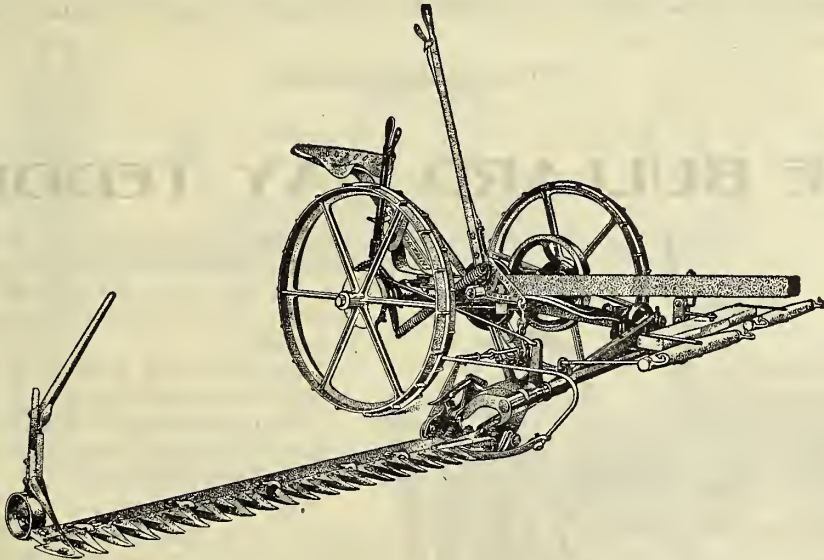


The Admiral Mower is the latest of the long line of Walter A. Wood Mowers extending back to 1852. It possesses all of the features that have made Walter A. Wood mowers famous the world over, and in addition has many new improvements. It is the only mower in the market built on the floating frame principle

and having genuine underdraft and uniform tilt. Genuine underdraft puts all the pull of the team on the cutter bar, giving the greatest possible cutting power. All neck weight is eliminated by the floating frame, and the uniform tilt makes possible cleaner work and

more hay. Square unyielding frame, finely equipped throughout with brass bushings, roller and ball bearings. No vibration reaches either driver or team. Double bearing prevents cutter bar from sagging back out of line with the pitman. Lowest, most direct and powerful thrust.

THE NEW OSBORNE MOWER.

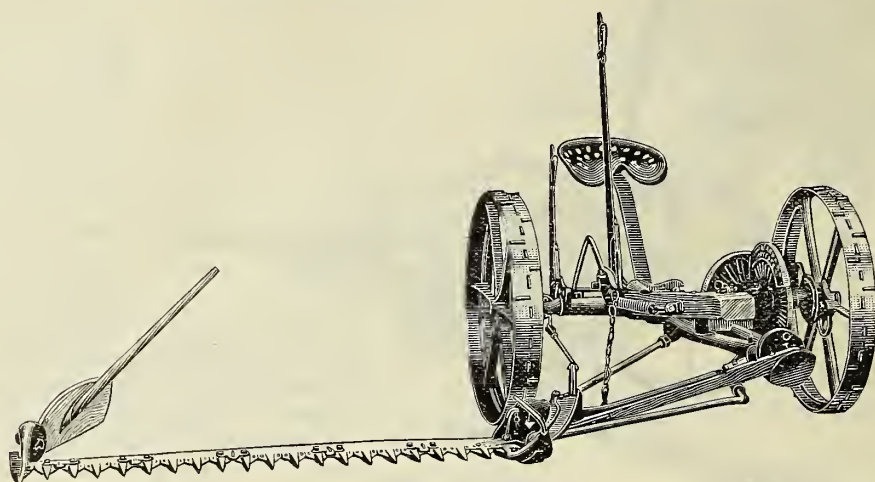


The new Osborne Mower has made a place for itself in the front ranks of grass-cutting machines. Each detail that means much to the farmer has been worked out with care, and the result is a perfect machine in every respect. Wide frame, broad-faced gears, and a foot-lift that raises the cutter bar high above every obstruction, are a few of the valuable features. The draft attachment should not be overlooked when comfort for the team is considered. Made in all sizes, plain and vertical lift.

Price on application.

THE WORCESTER BUCKEYE MOWER.

EASY TO HANDLE, LIGHT DRAFT, QUIET RUNNING, LONG WEARING.



ONE HORSE.
4 foot cut.

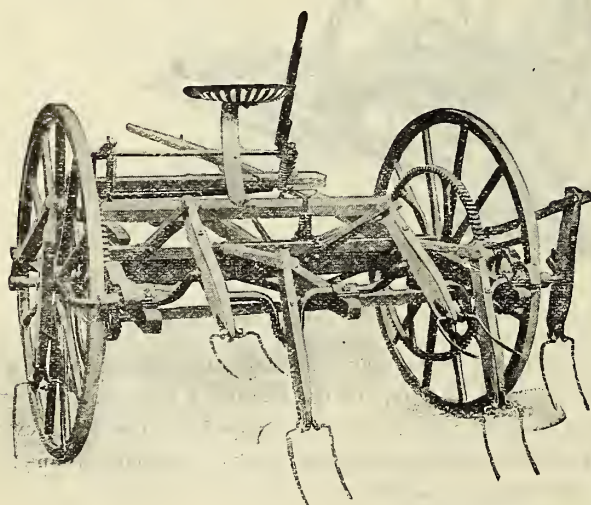
TWO HORSE.
5 foot cut.
6 foot cut.

These mowers are made in three sizes. The one-horse mower is the smallest, but is designed just right to carry a 4 foot cutter bar. The 5 foot is a broad and strong mower, carrying the bar steadily. The 6 foot is a very broad frame, heavier than either of the others, and extra strong.

The **Worcester Buckeye** is sold everywhere in the east and is popular wherever it is sold, but it was first built for Maine and Massachusetts. It is particularly well made. Runs like a watch. Try one of the new ones, and you will be convinced.

Price on application.

THE BULLARD HAY TEDDER.



Takes the hay up from the bottom, shakes it in the air and leaves it lightly on the ground for the sun and air to complete the work of hay-making. Does not shake to pieces. Is elastic but tough.

The crank shaft split in the middle makes it easy for the horse to turn.

Two tension springs on the tilting frame, together with the new Mudgett fork springs, prevent breakage of wood arm.

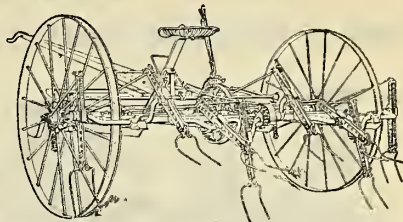
The forks on either side are driven independently by the wheel nearest them, so that this tedder can be turned while it works, without straining the tedder or horse, and do good work all the while.

If you want to get a tedder that will do its work in the right way, with the least fuss and bother, and that gives you the most lasting satisfaction, buy a **Bullard**.

Price on application.

THE WALTER A. WOOD TEDDER.

The Wood Tedder is built very strongly and substantially. Its construction will withstand all the jar and strain caused by the rapid motion of the fork arms. Strong springs absorb the vibration so that it does not reach either driver or team. Power is transmitted by chain and sprocket from the main axle to the fork arms so that the mechanism works smoothly and evenly. The motion of the forks has been so timed as to toss every bit of hay. Outside forks toss the portion just passed over by the wheels. It is equipped with roller bearings in the places where friction would be most likely to occur.



THE WALTER A. WOOD RAKE.

Will do the work better, rake cleaner and dump more accurately than many other rakes on the market. The teeth lie 8 inches to 10 inches on the ground—every bit of hay is raked. The Wood Rake never spills the hay at the ends.

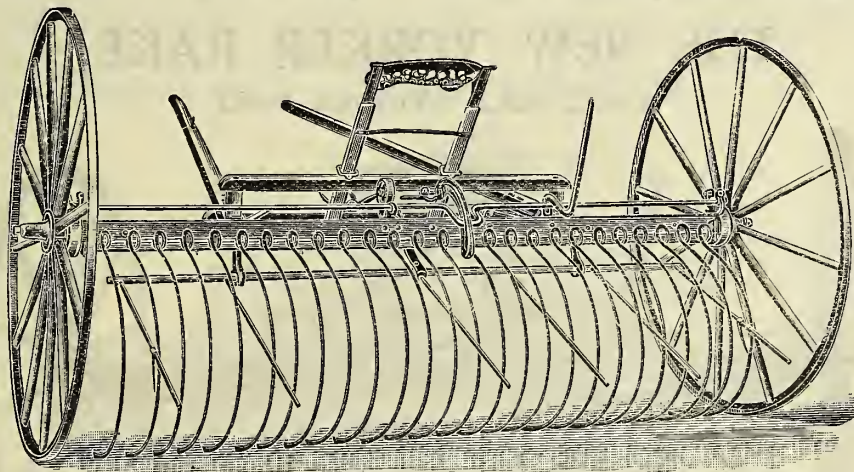
Every one needs a rake that he can depend on at all times to do the work right and to stand up under the constant wear and tear of work in all kinds of fields. If you have had any experience you know that there is no economy in buying a cheaply made, nicely painted machine that soon breaks in im-

portant parts or racks itself to pieces in a season or two. The only really economical rake has a long life, and that is why we offer the Wood Rake. Its strong and substantial construction assures you a service of many years.

Prices on application.

THE "GENUINE" NEW YORK CHAMPION HAY RAKE.

EITHER IN WOOD OR STEEL. STRONG, SIMPLE AND DURABLE.



That these rakes are **standard** is shown by the heading. A "**Genuine**" New York Champion means to many thousand farmers **the standard of all rakes**—one that is always in perfect condition, whenever it is wanted. It cleans the ground thoroughly without taking up dirt, and works with ease and convenience, in heavy or light crops, on level fields or hillsides.

The teeth. Oil tempered, flat pointed (sled-runner shape), interchangeable (no rights and lefts).

Cleaners are steel, diamond shaped, securely bolted to steel pipe. They pack the hay as the teeth fill and keep it from rolling.

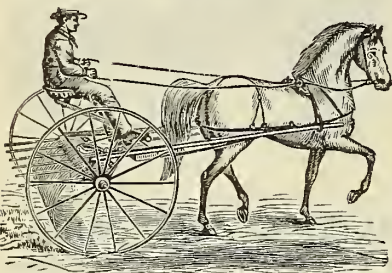
Dumps with one-piece rod from both wheels at once—this makes even draft. Levers, hand and foot, give the driver control at all times.

Wood wheels furnished unless otherwise ordered.

Price on application.

THE YANKEE HORSE RAKE.

SOME OF THE LEADING POINTS OF SUPERIOR EXCELLENCE FOUND IN THE YANKEE HORSE RAKE.



Simplicity in construction and excellent quality of materials.

Adaptability to rake anywhere, whether the fields are rough or smooth or the hay green or dry.

Rake head adjusted so as to balance the weight of the teeth.

This device completely prevents the teeth from dragging heavily and digging into the ground or filling the hay with dirt and dust.

Teeth run level with the ground at their points.

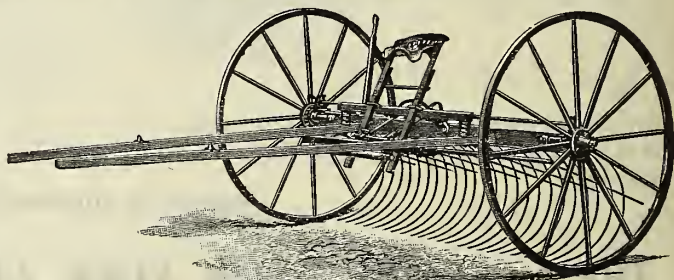
Each tooth is perfectly independent in action and supplied with a yielding spring that will allow it to pass safely over any obstruction that the axle can pass over.

Price on application.

THE "K. & W." HORSE RAKE.

THE WAY THE RAKE YOU BUY OUGHT TO BE MADE.

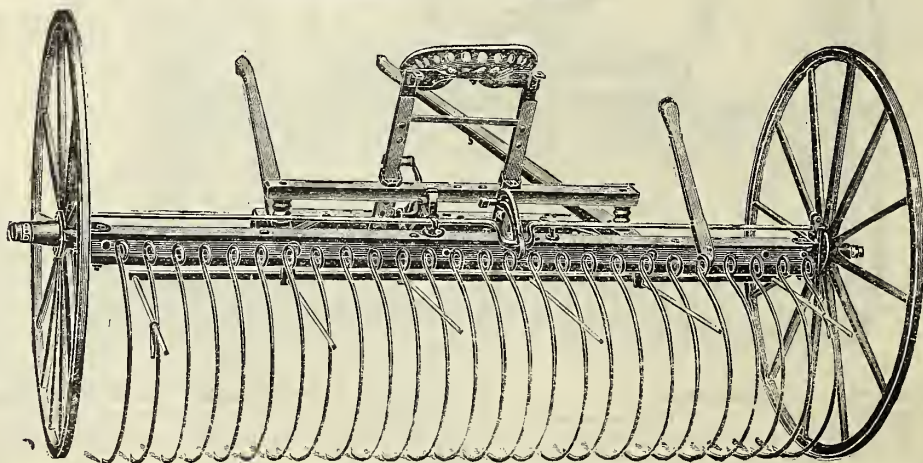
Wood construction, braced at every corner, steel truss rod under the axle bed, highest grade of material used throughout. Light but strong and will outwear any other rake. Sled-runner teeth, with a coil loop near the upper end. Rakes clean everywhere, but does not dig and never injures the grass roots. Not one new tooth furnished in a hundred sales. This rake will not roll hay. Any boy can handle it.



Price on application.

THE NEW YORKER RAKE.

A RELIABLE WOODEN RAKE.



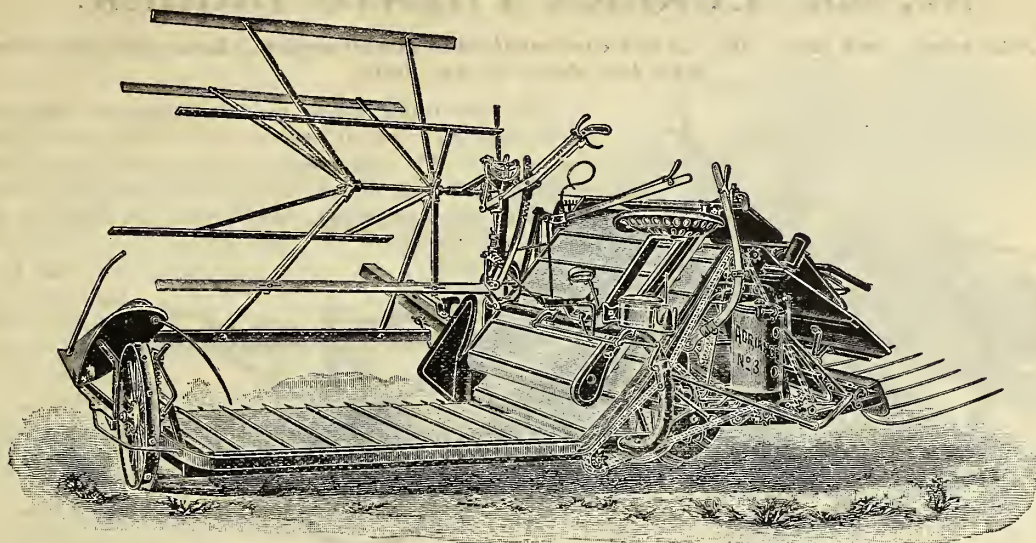
Certain sections of the country demand a model of this character, and for those who prefer this style we recommend the New Yorker Self-Dumping Rake shown here.

The rake is so nicely adjusted that you need but touch the foot lever to release the rake and allow it to dump.

Strongly made, durable and practical; a dependable rake in every particular.

Price on application.

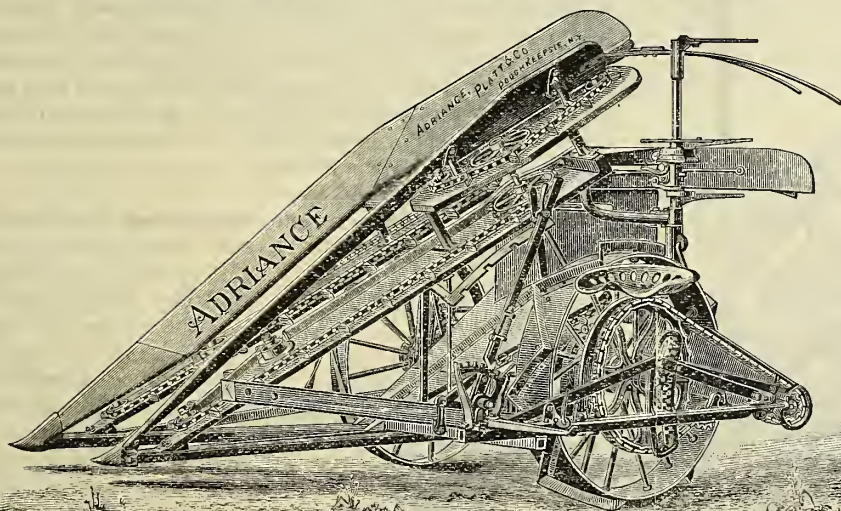
ADRIANCE GRAIN BINDER.



A binder is made up of many parts, some structural, some operative. Weakness in any one of these parts will immediately cause trouble with the entire machine. In general appearance, binders of the various makes are all very much alike. They all work more or less satisfactorily, especially when new and under favorable, or even ordinary, conditions. In the selection of a binder, the prospective purchaser should consider these points: Is the machine well built and strong enough to stand the hard usage I shall be obliged to give it? Has the matter of light draft been given full consideration? Will my team be able to handle it with ease? Is its mechanical construction such as to satisfy me that it is able to handle not only light standing grain, but heavy and lodged grain as well? Is it simple and easily taken care of? We shall undertake to answer these questions by calling attention to the details of the construction of the **Adriance Binder**.

To be superior to all other binders, it was necessary to build the **Adriance** more carefully, of finer materials, in more perfect proportions, with more rigid inspection, combined with a thorough knowledge of the conditions to be met in harvesting all kinds of grain in all sections of the country. The **Adriance Binder** is the result of sixty years of continuous experience in building harvesting machinery. It has been sold extensively in foreign countries, where operators are unskilled in the use of machinery; where repair shops are few and far between. In countries so distant that an expert could not be sent, **Adriance Binders** have given such satisfactory service that the number in use has increased annually by leaps and bounds. This great increase is not due to any one particular feature of merit, but to its superiority in every way.

ADRIANCE CORN BINDER.



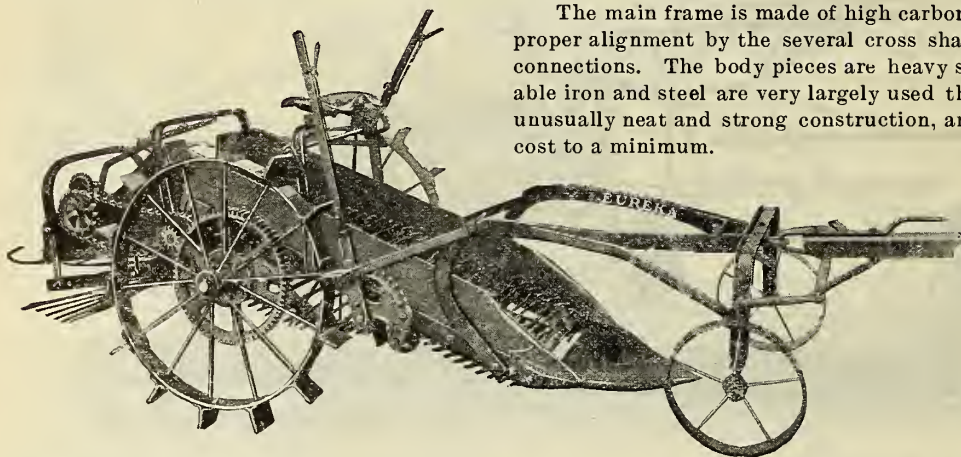
The test of a machine is not in one season's use in standing grain of average height, but it is in the years of service—in extremely tall or short grain and under adverse as well as favorable field conditions. In short, the **Adriance** contains all the points of merit known in the construction of corn and grain binders, as thousands of satisfied farmers can testify.

Write for complete descriptive catalog.

Prices on application.

No. 65. EUREKA POTATO DIGGER.

Has few parts and long life. Steel and malleable construction. Low cost for repairs, and less delay in the field.



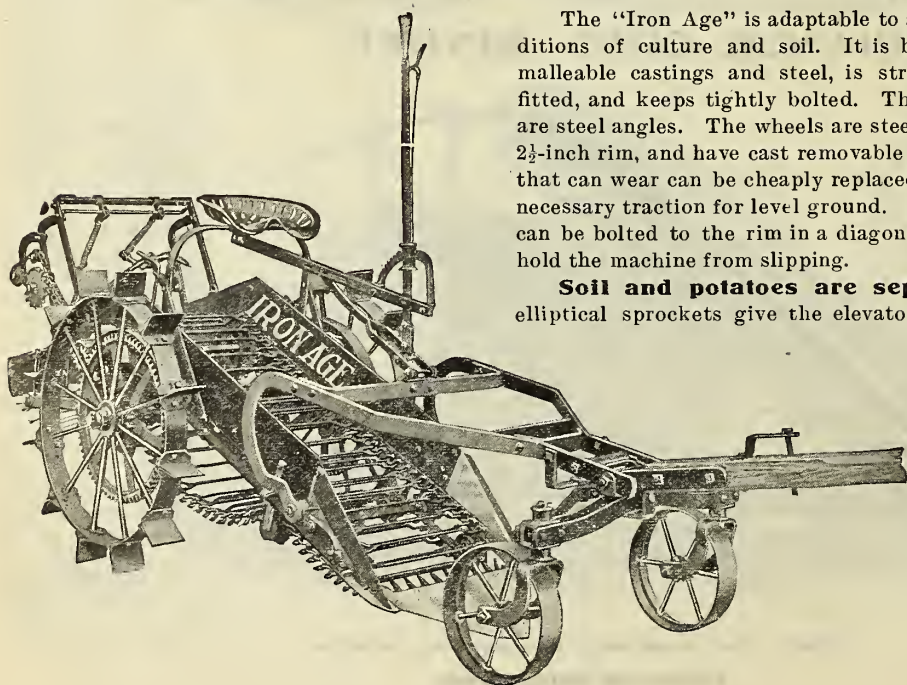
The main frame is made of high carbon steel bars, held in proper alignment by the several cross shafts and the shovel connections. The body pieces are heavy sheet steel. Malleable iron and steel are very largely used throughout, making unusually neat and strong construction, and reducing repair cost to a minimum.

The Eureka has large capacity and will do good work in heavy or light conditions. The shovel and elevator are 22 inches wide. The elevator is 5 feet long, is made of 7-16 inch high carbon

steel rods and is supplied with effective agitators. A series of spring steel tines provide ample agitation at the rear of the main elevator. The motion of the shaker is a distinctive Eureka feature and lessens power and draft. The potatoes are placed in a narrow row, reducing the labor of picking up. The vines and weeds are turned to the side and are not deposited on the potatoes. The pivotal front wheels permit a very short turn. The connections with the pole and frame provide for liberal movement in all directions. The wheels automatically adjust to uneven ground and pass over obstructions without affecting the depth of shovel. The machine can also be backed. Neck yoke and four horse eveners are supplied, although two horses will handle the digger in many conditions.

Price on application.

"IRON AGE" POTATO DIGGER.



The "Iron Age" is adaptable to a wide diversity of conditions of culture and soil. It is built almost entirely of malleable castings and steel, is strong, compact, carefully fitted, and keeps tightly bolted. The main frame side bars are steel angles. The wheels are steel, 28 inches in diameter, 2½-inch rim, and have cast removable hub box—the only part that can wear can be cheaply replaced. Steel spurs give the necessary traction for level ground. For hillside work, they can be bolted to the rim in a diagonal position so they will hold the machine from slipping.

Soil and potatoes are separated thoroughly—elliptical sprockets give the elevator apron just the right automatic movement. The shaker completes the separation. The elevator chain (apron) consists of interlocking cross bars of steel, has no unnecessary tension, and is driven direct by gearing from both main wheels.

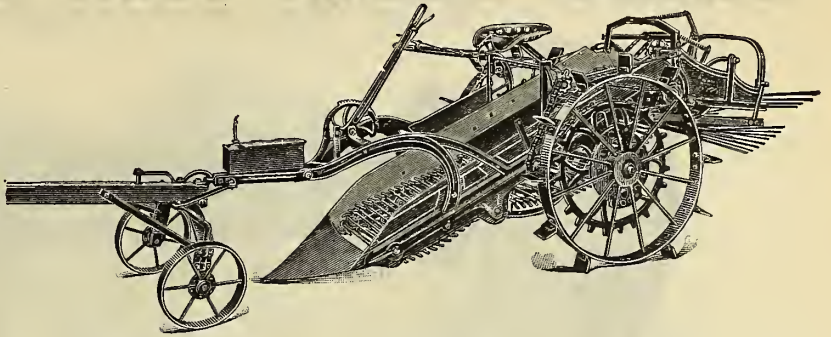
**Price
on
application.**

The Hoover Potato Digger.

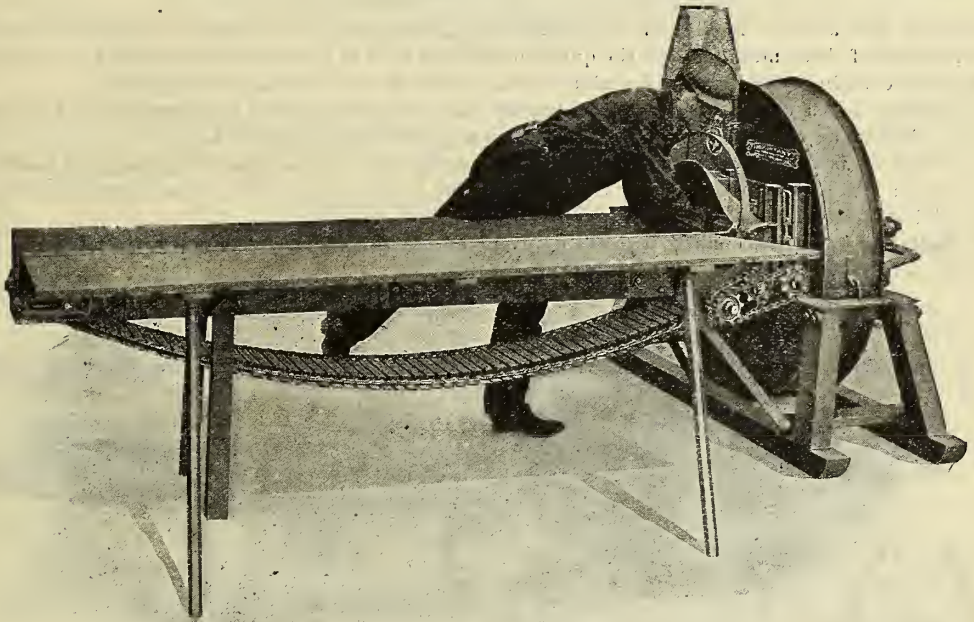
A digger built on the right principle to do good work, and with years of experience to prove it.

The shovel, elevator, and vine separator are especially constructed to make the Hoover one of the most perfect working diggers on the market.

Price on application.



"MONEY MAKER" ENSILAGE CUTTER AND BLOWER.



Discs solid, with knives arranged to produce almost no friction. Silage does not pass through the discs, but falls into the face of the fan blades, which force it directly into the delivery tube. Discs revolve at 700 to 900 revolutions per minute.

Cutter knives are straight, the most efficient and strongest type in use. The parts which hold the knives are of malleable iron. Knives are adjusted to cut close and clean like shears blades.

The fan wings are four in number, and are made from malleable iron. Discs, knives and fans are all contained in the fan case.

Discs 34 inches in diameter, 1 1-2 inches thick.

Feed rolls are ideal. The upper roll is corrugated and the lower is toothed, so that material fed into the cutter is carried along in perfect condition for cutting.

The chain feed carrier is so made that no litter can drop between the slats.

The silage is forced from the fan case, up the delivery tube by means of the fan wings. At the top of the silo, a curved elbow or distributor hood deflects the silage into the silo.

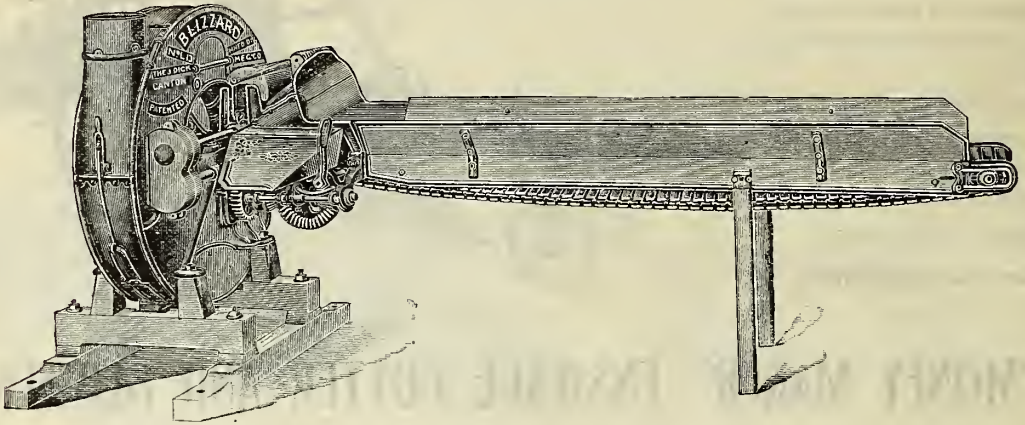
An iron safety yoke is placed directly over the hopper, and while it can be used as a starting lever, its chief purpose is to protect the operator from injury, for if a feeder's hand became caught, a touch on the lever will *instantly stop the machine*. This device is found on no other cutter manufactured.

All gears interchangeable on either sizes of the "Money Maker" Cutters.

The "Money Maker" Ensilage Cutter can be furnished mounted or unmounted.

Write for quotations.

"Blizzard" Ensilage Cutter and Blower.

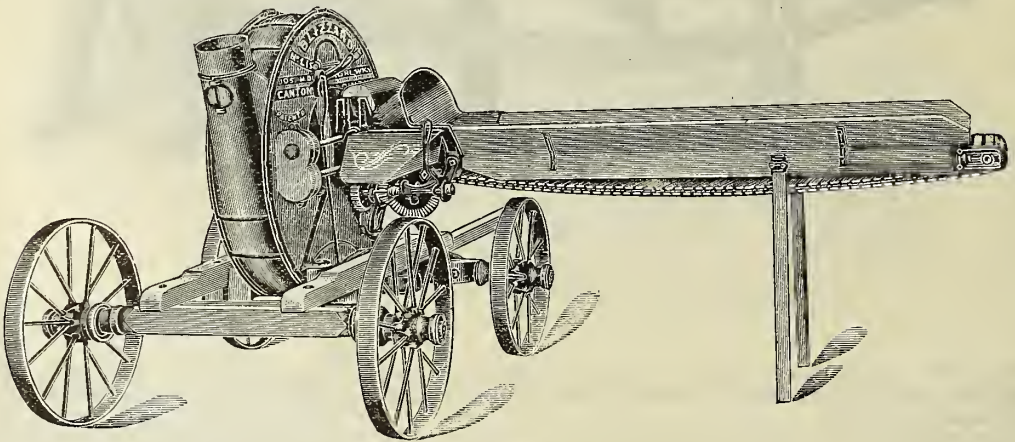


The use of silos and the feeding of cut fodder have grown apace as the result of scientific investigations proving the value of these methods, and the question of what kind of a silo is best to build has many advocates for and against certain styles, but the decision of what *cutter* to use, admits of no dispute.

It is evident that a cutter which works steadily, takes whatever is fed to it without a hitch, and is so built that it outlasts any machine of its kind, is the most profitable machine to buy.

The "Blizzard" is that kind of a machine, built for endurance and satisfaction-giving, not merely slapped together to sell; is substantial all the way through, and the parts you *can't* see are as carefully made and of as good material as those you *can* see.

The Self-Feed Table enables it to eat up green or dry fodder with astounding rapidity and with very little attention from the operator. It practically runs itself.



The Improved Wind Elevator not only elevates any height and in any direction, but distributes the cut feed evenly inside the silo.

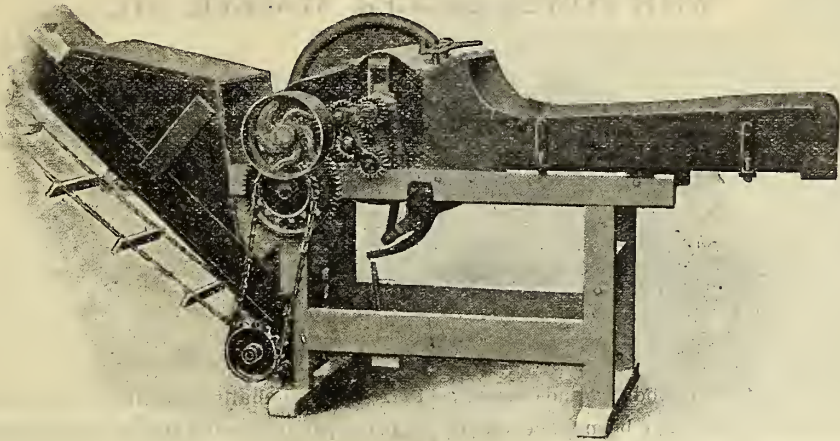
The knives of the "Blizzard" are extra strong, and the special feature which will appeal to user is that they may be adjusted to or from the shear plate while the machine is running at any speed; also every "Blizzard" Cutter is tested out at a speed and under conditions 50 per cent. greater than is ever called for in actual use.

All the very latest improvements are embodied in these machines. They are built for business, sufficiently strong in all its parts to withstand the wear and tear of any amount of work required. Each size is carefully proportioned, so that whether you buy a small or large size you are sure of getting an ensilage cutter that will do all we claim and all that could be desired. The "Blizzard" is a satisfactory machine to buy and a more satisfactory machine to use.

Complete descriptive catalog and price list on application.

GRAY'S ENSILAGE CUTTER.

WITH STATIONARY TABLE.



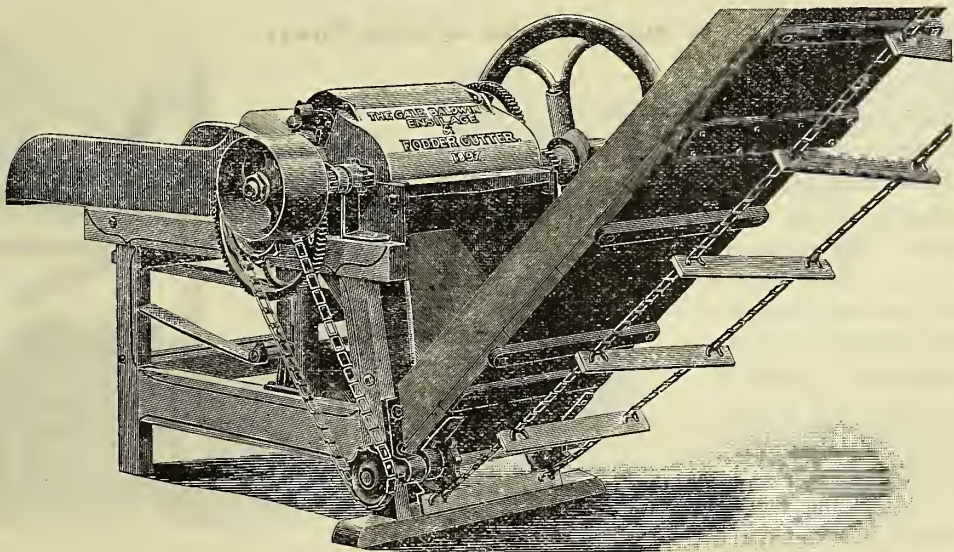
Identical with the traveling feed table, except that the sides of this table (the table being stationary) are arranged so either or both can be let down by simply lifting a latch.

All cutters are furnished with the necessary gears to cut $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch lengths.

Prices mailed on application.

THE GALE-BALDWIN

ENSILAGE AND FODDER CUTTER.

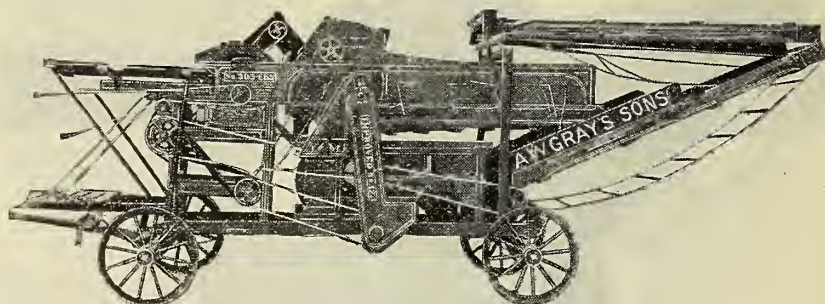


A very successful machine made for light power, and one which is easy to feed, easy to keep in order, and is very durable. Cuts with great rapidity hay, straw, corn stalks, ensilage, etc., and the improvements lately made have proved to be exactly what was needed to make this machine one of the most perfect and easiest working ensilage and fodder cutters.

Price on application.

Gray's New Thresher Nos. 305-306,

WITH POWER BAGGER, STACKER, ETC.



This thresher has been remodeled and reconstructed, and while built along the lines of regular threshers a number of radical changes have been made, one of the principal ones being that it is arranged so that it commences to separate the grain from the straw as soon as it leaves the cylinder, thus meeting the special benefit claimed for the undershot threshers.

It is built especially to meet the demand for use with gasoline engines, is made with 18 x 30 cylinder, but two different sizes of separators have been added to admit using different size engines and are numbered 305 and 306.

Price on application.

GRAY'S INDEPENDENT DRAG SAW MACHINE.

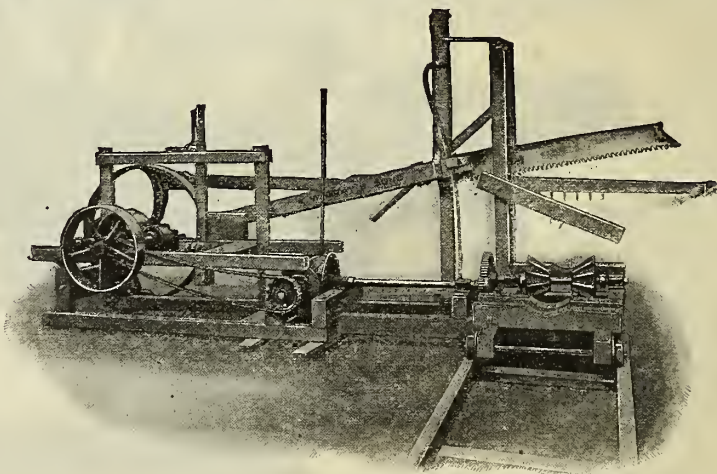
FRICION DRIVE,

to run by Engine or other Power.

This is the latest and best drag sawing machine on the market.

One of the most important points in using the drag saw is to be able to start it slowly, thus removing any danger of breaking or bending the saw, and this is accomplished perfectly by using the friction transmission. Another feature is to be able to stop instantly, and this is arranged for in this machine as the moving of the break lever releases the friction pully, at the same time applies the brake on the balance wheel, thus

stopping the machine instantly. By changing the size of the driving pully on the counter shaft, these machines may be adapted to almost any style of power.

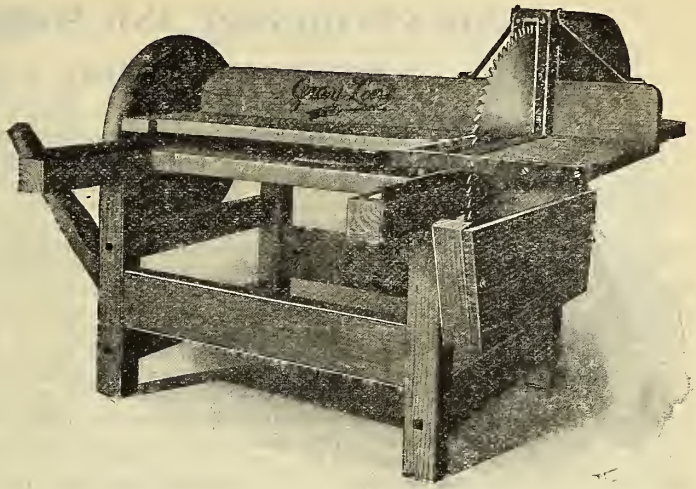


Price on application.

Gray's Circular Saw Machine with Extended Table.

These are made with a table both sides of the saw, which is better adapted for sawing long wood, and can be used for sawing four-foot wood into stove wood. Saw machines made in this way can be used by one person sawing, as there is a rest for the wood both sides of the saw. Machine equipped with either a 24-inch, 26-inch or 28-inch saw.

If made for a larger than 28-inch saw there will be an extra charge for frame, as it has to be made larger.

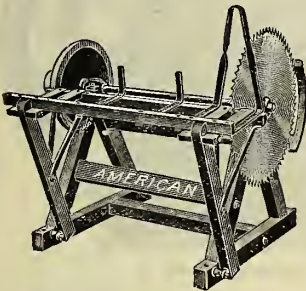


Gray's Circular Saw Machine with Swing Table.

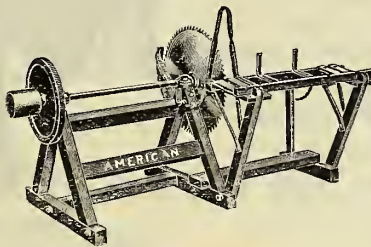
To meet the demand for a lower-priced swing table saw we offer the machine as above, except made with swing table.

Price on application.

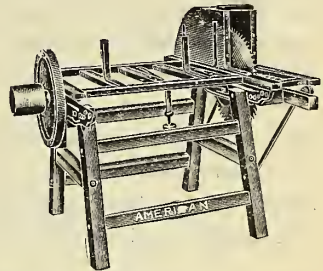
AMERICAN "CLIPPER" WOOD AND POLE SAWS.



No. 3. Cord Wood Saw.



No. 4. Wood or Pole Saw.



No. 6. Sliding Table Cord Wood Saw.

These saws cover every style of both tilting table and sliding table machines, with balance wheel placed on end of mandrel or on independent shaft under the frame.

The frames are made of selected seasoned hard wood, accurately mortised and tenoned, and securely bolted together by steel rods embedded in the joints and passing through from one side of the frame to the other.

No. 4 has extension table for cutting poles, or four or eight-foot cord wood. By changing the iron guard to the opposite end of the tilting table, this machine can be set up exactly as No. 3. These saws may be had either right hand, or left hand, as ordered.

For those preferring a sliding table wood saw we offer the No. 6 machine. The carriage slides on iron ways with an easy movement and is counter-balanced by weight. When carriage is in forward position the saw is entirely covered by the hood.

Prices quoted on application.

GASOLINE ENGINES.

FOOS STATIONARY AND PORTABLE ENGINES.

HORSE POWER SIZES: 3, 4, 6, 8, 11.

The value of an engine is measured by the number of years it will run at its highest general efficiency. The time lost in operation, repair bills, attendance, fuel consumption and depreciation should be charged all to the engine account. The original purchase price is all that is definite in the final cost and is relatively unimportant. Operating cost is constant and begins with the first turn of the fly wheels, the amount depending largely upon design and construction and the material put into the engine by the factory.

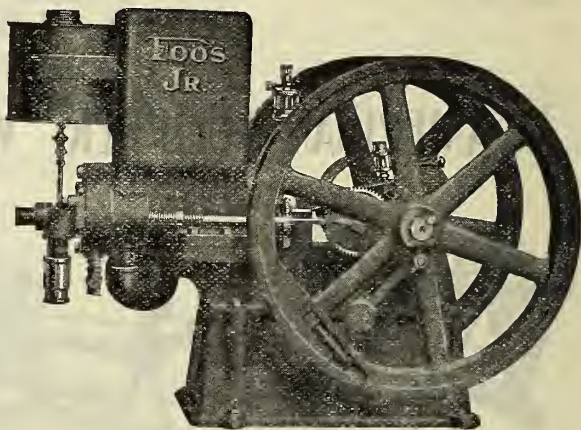
The purchaser of an engine simply gets a machine that turns fuel into power, for which it will use in ten years in gas, oil or gasoline from 5 to 10 times the original purchase price.

Naturally, also, engines wear out—some parts sooner than others. The cheapest engine is one that will run for the greatest number of years—in which replacements are unnecessary or reasonable in cost. The durability of an engine depends on correct design, careful construction and material best suited for actual service conditions. To stop an engine to get to the governor or oil cups; to dismantle half of its parts to clean an igniter; examine a valve or make some simple adjustment, is one of the most expensive results of incorrect design. All parts should be in full view and quickly accessible; the design should be such that one part can be entirely removed without disturbing another part. Finally, in offering a complete analysis covering the structural details of the Foos, we want to point out another salient fact: The shaft, valves, bearings, counter-balances, igniter and governor; every dimension and the proportion of all parts in the Foos Engine are the collective result of experience of 27 years. The difference between the Foos and other engines is not a difference of opinion, but of methods. We use the centerline disc counterbalance because it makes a smooth-running engine; the wipe spark igniter because it keeps the electrodes clean; a plain cylinder head for accessibility; positively operated valves for increased efficiency and durability. Also the phosphor bronze bearings, semi-steel cylinders and other details of design and construction are acknowledged by the best gas engine authority to be the highest type of design and construction. Each detail has proven its efficiency in thousands of engines in actual use and the man who buys a Foos Engine gets the best engine that is possible to build for industrial power, electrical service irrigation, farm work or any other purpose to which an engine can be applied.

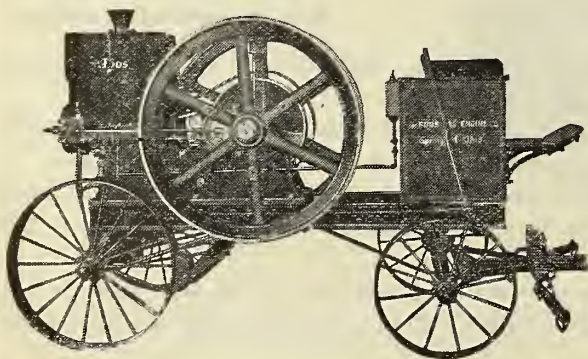
FOOS GASOLINE ENGINE EQUIPMENT NO. 3.

2 1-4 horse power.

In this equipment the engine is mounted on an iron sub-base high enough to make the fly wheels clear the floor. It requires only a small amount of cooling water and in every way is convenient and easy to handle. The battery, spark coil, etc., are placed in the base, making an outfit very compact and easy to install on trucks or temporary foundations with other machinery. The No. 3 equipment is also furnished in 1½, 4, 6 and 8 horse power, descriptions of which will be found in the regular catalog devoted to the Foos Junior line.



FOOS JUNIOR EQUIPMENT No. 3.



**FOOS STANDARD PORTABLE ENGINES.
3 TO 11 HORSE POWER.**

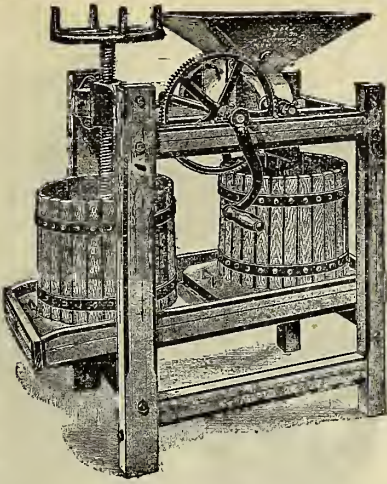
The illustration shows the portable and ready-mounting type of the Foos Standard Engine. This is the highest quality and most scientifically designed engine manufactured. It has been used for electric lighting, for industrial purposes and in city water works stations for 27 years. Combined outfits are furnished with this engine for sawing wood, pumping water, etc., and in the regular portable type will furnish the highest grade service for operating threshing machinery, hay presses, filling silos or for any other service. It operates on gasoline or kerosene, and will give constantly satisfactory service.

Price on application.

Aluminum Cider Mill.

The very Latest Machines on the Market.

The use of aluminum in these mills, both in the shredding roll and the hopper parts, gives an absolutely sanitary mill, in which there is no possibility of pollution to the fruit or juice. Aluminum can be quickly cleansed with water, and it furthermore is absolutely proof against the action of acids.



Junior,	.	.	.	.	\$16.50
Medium,	.	.	.	.	19.00
Senior,	.	.	.	.	26 00

Wood Roll Cider Mill.

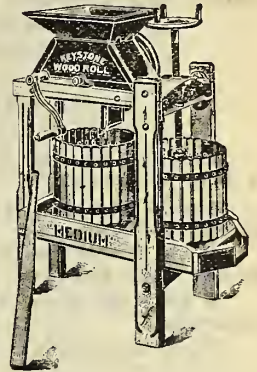
Rolls are hard wood fitted with high carbon steel cutters.

Adjustment is quick and positive.

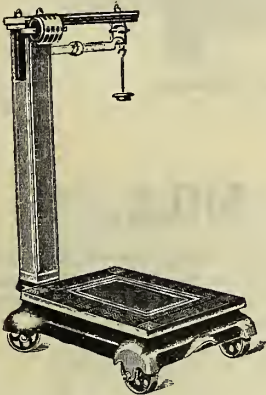
Hopper is large.

Gearing heavy and easy running.

Frame, Screw, Cross Head, Tubs and **Drain Board** same as in **Iron Roll Mills**.



Junior,	.	.	.	.	\$15.50
Medium,	.	.	.	.	18.00
Senior,	.	.	.	.	23.00



"CYCLO" BALL-BEARING SWIVEL WHEEL SCALES.

Are constructed with two swivel or castor wheels at the front or beam end of scale frame, combined with two stationary wheels at rear end of frame, which enables the operator to move the scale in any direction with the utmost ease.

The main frame platform and levers are made of smooth grey iron of ample weight and strength, all iron parts being finished in black Japan.

"Cyclo" Scales are fitted with hardened flexible lever bearing loops and platform bearing feet. The beam and crescent-shaped sliding poise are of solid brass, highly polished. All pivots are of best tool steel, carefully tempered and ground to a knife edge. Wood parts are of the choicest selection obtainable, well finished and handsomely striped in gilt.

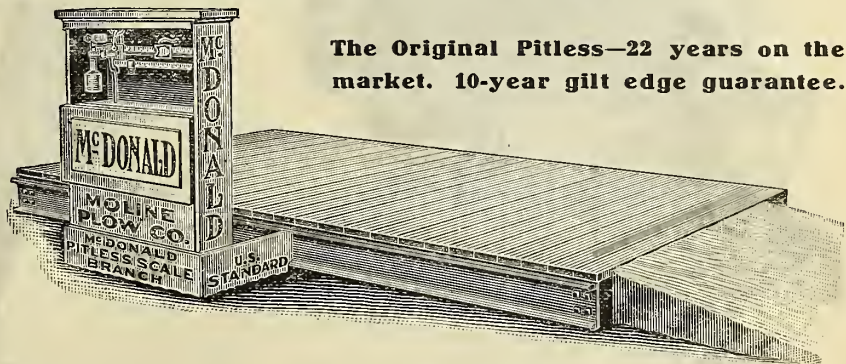
Prices on application.

McDONALD SCALES.

"McDonald Pitless"
WAGON AND STOCK
SCALES.

Steel Channel Frame.
Solid Steel Joists.

COMPOUND AND TARE
WEIGHT BEAM.



The Original Pitless—22 years on the market. 10-year gilt edge guarantee.

Complete scale above ground. Protected bearings—Never freezes.

Prices, all sizes, on application.

LETZ GRINDING MILL.

Principal features that make the Letz Burrs and Grinders stand forth are:

**FINE GRINDING,
SILENT RUNNING,
LONG LIFE,
LIGHT DRAFT,
SELF-SHARPENING.**

PLATES can be changed by anyone in a few minutes.

SELF-ALIGNMENT KNUCKLE Burr Holder.

WET, DAMP or OILY GRAIN is a delight to the Letz Grinder.

HARD-OIL GREASE CUPS on every bearing.

FINE GRINDING. The Letz strongest feature is that they are warranted to grind wheat screenings, oat hulls, alfalfa hay after being cut to one-half inch lengths, also cob and corn, with all the husks, equally as fine as can be done on attrition or French burr grinders. Table meal is a specialty of the Letz Burr.

The Letz Burrs have stood the test for twenty-one years and all their users certify that they cannot be equaled in fine grinding and long life of burrs.

Power required—from 2 to 5 horse power.

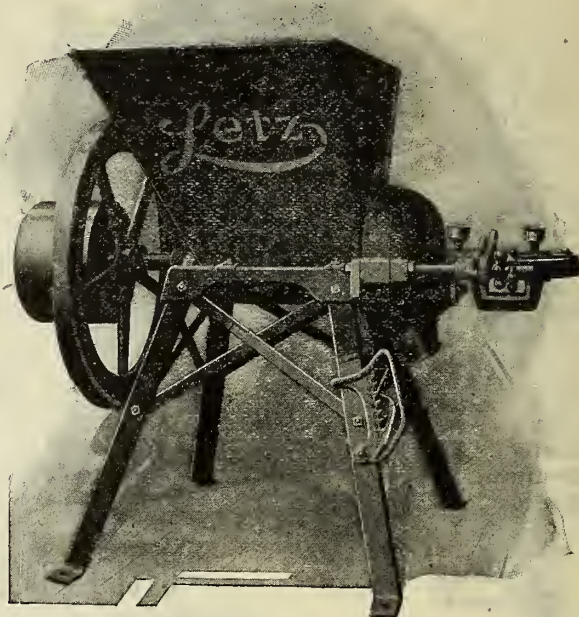
Capacity—5 to 25 bushels ear corn per hour.

Plates—8 inches diameter.

Speed—200 to 600 revolutions per minute.

Pulley—8, 10 or 12 inches diameter, 4 inch face.

Weight—230 pounds.



LETZ COMBINE GRINDER.

Price on application.

PEERLESS FEED GRINDING MILL.

These mills are designed to meet the demand for mills that can be operated with small power, and still have capacity to do a reasonable amount of work. They are built of iron and steel excepting the hopper, and have proven great sellers. They are equipped with patented machine cut grinding plates, ball bearing end thrust, quick release lever, babbitted split boxes, adjustable feed, solid crusher roll and self-lining plates.

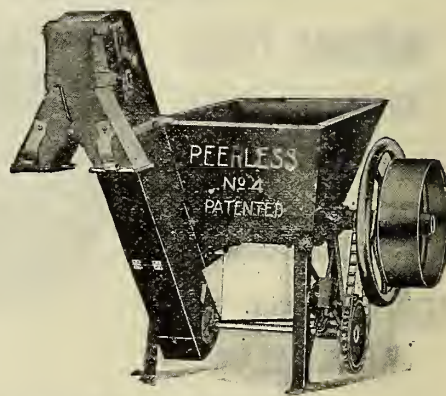
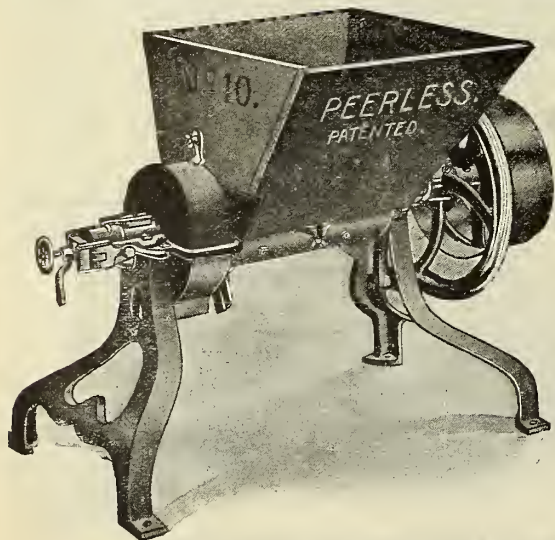
Power required—from 2 to 5 horse power.

Capacity—5 to 25 bushels ear corn per hour.

Speed—300 to 500 revolutions per minute.

Pulley, 14 x 4 inches.

These mills will also grind shelled corn and small grain successfully.



The following sizes, Nos. 4, 5, 10, 40 and 50, carried in stock.

Price on application.

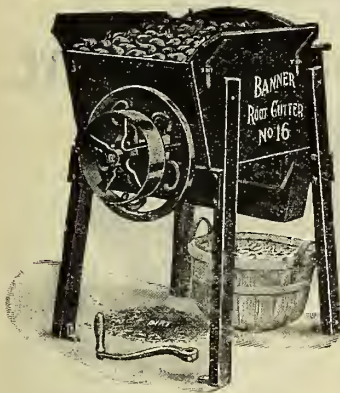
BANNER ROOT CUTTER.



BANNER CUTTER NO. 7.

Prominent poultrymen all over the country have taken up the matter of green food for their fowls. It is, in fact, a hen's natural food. It is a great egg producer in itself, because it keeps the body of the hen in a good, healthy condition, and healthy hens are the only egg producers, no matter what the breed. Not only do roots make healthy hens, but their economy as food is astonishing.

It cuts fast and is easy running. Leaves the feed in fine ribbon-like strips that make choking impossible. Fowls large or small can safely eat the feed. The knives are adjustable and made of the very best of steel. An iron grate in bottom of hopper lets dirt and gravel escape before reaching the knives. In this cutter we offer the poultrymen a low priced, high grade, nicely finished and mechanically constructed machine, and feel that anyone who desires to feed roots and vegetables to their flocks can well afford to own one. Two to five minutes will cut enough feed for a large flock of fowls.



BANNER CUTTER NO. 16.

A grand machine for hand and power use. This machine can be used for hand or power, and it is the only Banner Cutter we offer having a balance wheel. It is also supplied with a pulley for belt power, and a crank, so it can be used by hand; in fact, it is a small size power cutter, and the best machine made for hand and power use.

The cut is taken from a photograph, so it represents the machine exactly. The condition of the fodder is the same as on all the cutters.

Capacity when run by hand, 30 to 50 bushels per hour. Capacity when run by power, 1 to 3 bushels per minute.

This cutter has the self-feeder and dirt separator, same as the other sizes, and is a very desirable size machine for all feeders who do not want the big No. 10 exclusive power machine.

The pulley is 12 inches in diameter, with a 3-inch face, and fastens to either end of shaft. It has lugs on bottom of legs, so it can be fastened to the floor. Speed by power, 125 to 150 revolutions.



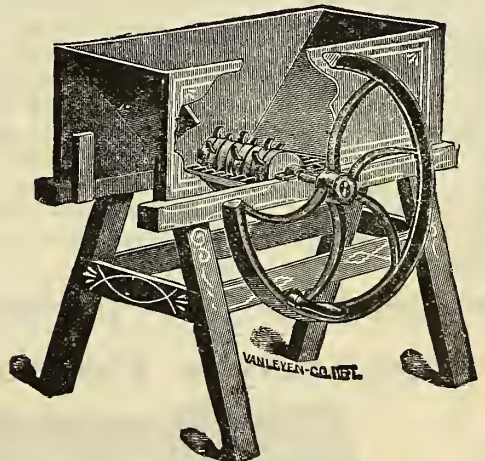
BANNER CUTTER NO. 20.

The No. 20 Banner Root Cutter is made for hand power and is the kind and style that meets with the largest sale, because most of the farmers who feed roots to stock want a machine that is run by hand. It has a capacity of 30 to 50 bushels per hour, although it will cut at the rate of a bushel a minute easily on the test.

It is well built, nicely finished, runs easily, feeds itself, separates the dirt from the cut feed, and, take it all around, it is all that could be desired in the way of a first-class root cutter for all ordinary requirements.

It is supplied with the best steel knives. The condition of the fodder after passing through this machine is left in the same desirable shape, to avoid choking, as comes from all other Banner Root Cutters.

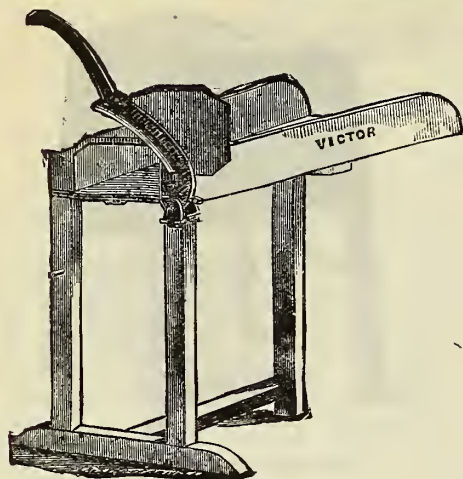
Champion Root Cutter.



This well-known root or vegetable cutter has been on the market for many years, and is too well known to need further description. It is well made of good material.

Price on application.

Victor Feed Cutter.



This iron handle level cutter is so simple and easy to work as to commend it to everybody who has but a moderate amount of stock to feed. The knife is easy to adjust, grind and keep in repair.

Price, \$3.50 to \$6.00.

Green Mountain Silo.



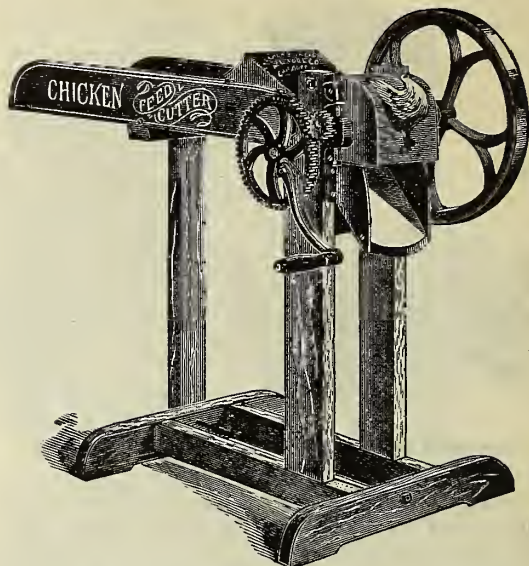
This is a round silo, the only shape which will preserve ensilage in perfect condition. The construction is most excellent, the best of spruce and white pine being used. Staves are planed on four sides, and matched and beveled to fit the circle of the silo. The front is strong and rigid, doors are air tight, and heavy hoops and rods insure the silo keeping tight and in shape at all times.

Every silo dipped in creosote preservative unless otherwise ordered. Roofs priced separately.

Specifications furnished on any sizes wanted.

Chicken Feed Cutter.

INVALUABLE TO POULTRY RAISERS.

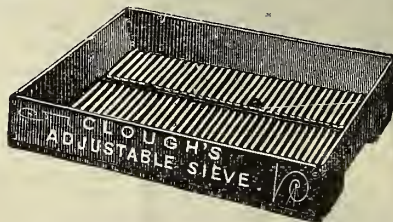


This is a highly efficient machine for cutting clover, hay or other feed into extremely short lengths. It is made with three knives $6\frac{1}{4}$ inches long, and a self-feeding comb roller, which straightens the feed as it is presented to the knives, making a more uniform length of cut. It cuts very rapidly, being one of the fastest machines of its size.

Cuts 1-4, 7-16 and 3-4 inches.

Price on application.

CLOUGH'S ADJUSTABLE SIEVE.



In offering this adjustable sieve to farmers and others, we know that they will find it useful and valuable for separating foul seeds from grain, and sifting out the small grain, thereby getting the most vigorous kernels for seed; also for cleaning and sorting beans, peas, etc.

Price, \$2.00.

Peabody's Potato and Root Carrier.



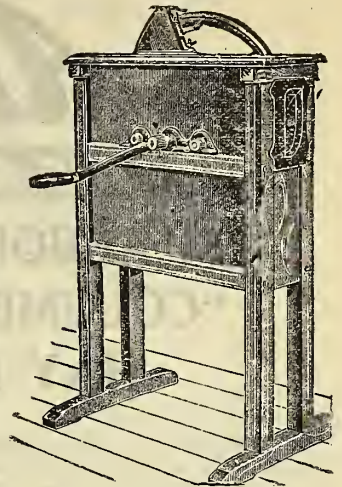
Will quickly fill or empty a bin of potatoes without bruising them. Every farmer needs one. Sizes, from 12 to 22 feet in length.

Price on application.

"K. & W." CORN SHELLER.

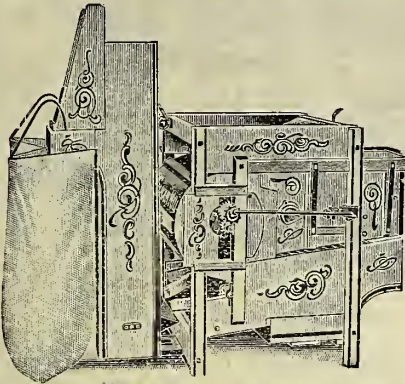
Has separator, and large, heavy balance wheel. The working parts are held firmly together by solid shaft boxes or bearings. One of the most popular shellers on the market. Made in one size only. Complete with blower attachment.

Price on application.



THE CHATHAM MILL.

Capacity, 60 bushels per hour.

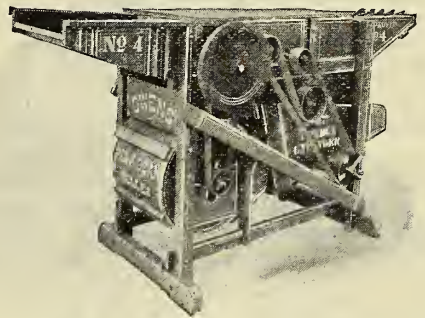


To sow large, plump grains, such as results from a sensible system of grading with a good mill, results in a direct increase, taking it one year with another, of from 10 to 25 per cent. in the crop.

Grade all the grain in the Chatham Mill, and take out all the foul seeds, dirt, chaff, etc., and thus secure better grain to market and perfectly pure seed for sowing.

Price on application.

THE OWEN'S BEAN THRESHER.



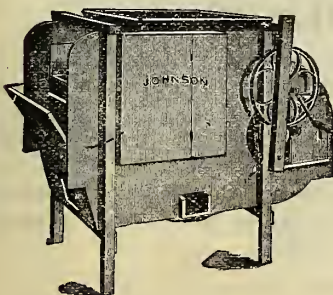
This machine will thresh all varieties of beans (or peas) directly from the rankest growing vines, without splitting the seed. It takes **all the seed** from the vines and pods in a clean marketable condition, and shreds the vines, making them valuable for fodder. It will also thresh corn in a perfectly satisfactory manner, handling it as nicely as it does beans. All pieces of cob, etc., are removed and the corn is as well cleaned as when run through the ordinary corn sheller.

Price on application.

JOHNSON FAN MILL.

The fan mill is indispensable to a well-regulated grain barn. This mill runs the sound, clean grain to one side of the mill, while the sand and small seeds pass out at the other, and the heavy chaff and heads are caught in a receptacle behind the machine. It will not only clean grain, but also grass seed in the best manner.

Price on application.



Ann Arbor

"THE BALER FOR BUSINESS"

ANN ARBOR "COLUMBIA" HAY PRESS.

The capacity of this machine runs from forty to seventy tons per day. It makes bales weighing from 100 to 160 pounds, according to the operator's wishes, requiring but 8 to 12 horse power to do the work.

The feed hole is but forty-two inches from the ground. The hay can be pitched directly from the windrow under the automatic self-feeder, thus saving a man on top of the machine as required by all other belt power presses.

This press is equipped with automatic division block dropper, bale length indicator, etc. It embodies all the latest ideas of steel press construction, and is bound to give the very best satisfaction.

We guarantee the "Ann Arbor" to be capable of baling just as much hay, if not more, under equal conditions as any other press on the market, and to **do it with a lower average repair bill.** We guarantee it to be well made, of good material, and by good mechanics, and we will furnish free the first season any part defective in workmanship or material.

No. "35" and Engine Complete on 4 Wheels,

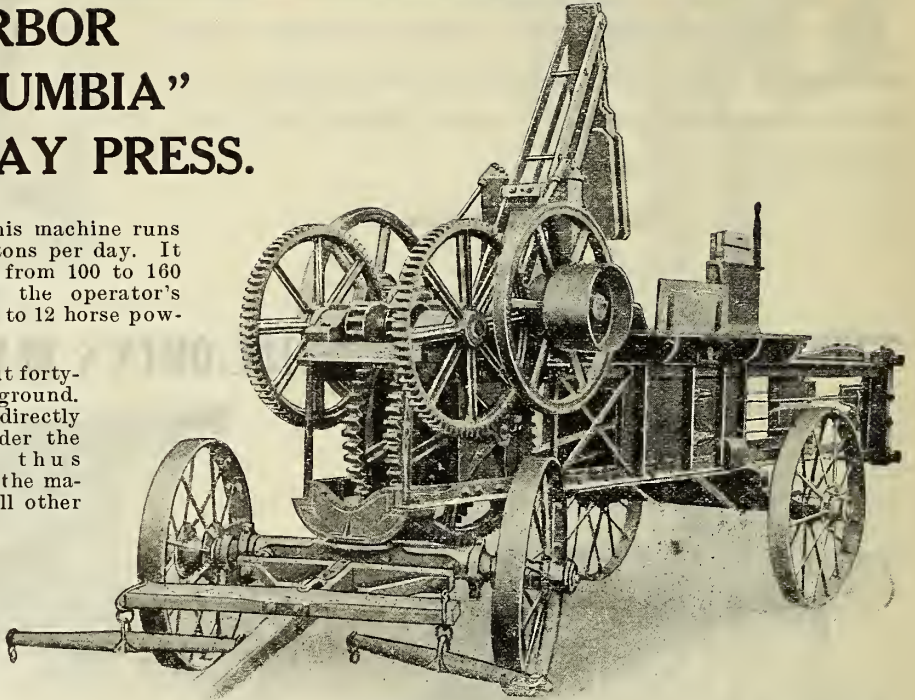
the handiest, speediest and most economical baling outfit, making bales of one hundred pounds and less. It will bale hay for less money than any other baler on the market. This machine is equipped with the same powerful self-feeder, the same size feed hopper, the same handy, effective block dropper and bale length indicator used on the double geared Ann Arbor "Columbia", and can be run with from 6 to 10 horse power.

No. "20" Combination.

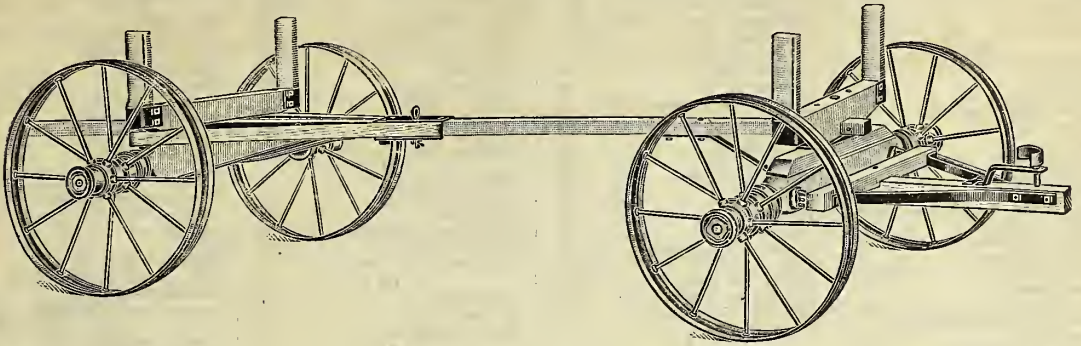
This press is equipped with the same patented self-feeder that is used on all of the well known and popular "Ann Arbor" belt power balers. Most all self-feeders on horse presses have to be helped by the man feeding if they make any headway, but this belt power press has an absolute self-feeder, the best in the United States without any question. All you have to do is to place the hay over the feed hole. The feeder does the rest at a rate of seventeen to twenty beats per minute.

The block dropper is the same that is used on all these machines, but unlike all other belt power balers, this machine has a long feed hopper opening like a horse press. Makes bales weighing from 85 to 120 pounds, and requires only from $3\frac{1}{2}$ to 5 horse power.

Prices on application.



STEEL CONSTRUCTED FARM TRUCK.



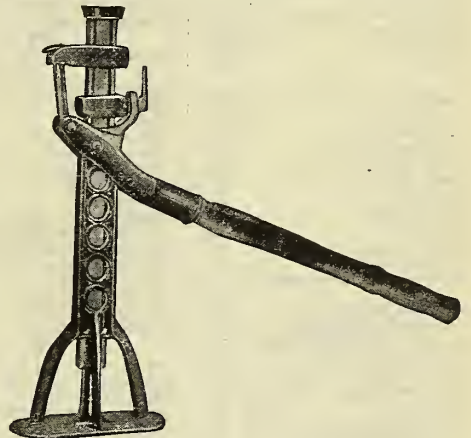
We emphatically recommend this truck as adapted for all kinds of farm work, being exceptionally well made, and so constructed as to carry any style farm wagon box. The frames are solidly put together, and are of especial value in hauling **heavy loads**, being built with that end in view. Are equipped with either steel wheels and axles, or heavy wood wheels.

Write for quotations.

EUREKA WAGON JACK.

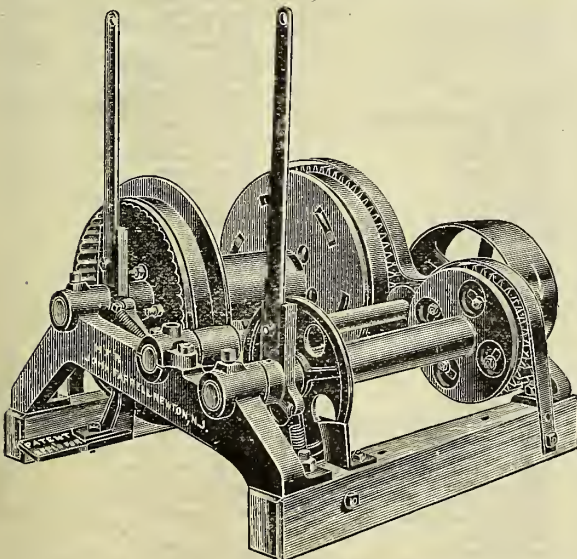
Light in weight but strong in lifting capacity. Small in size but will easily raise a loaded wagon. Is 16 inches in height when lowered. Is lowered by the same handle that raises. Is constructed of steel and malleable iron. Not a bolt, spring or ratchet used in its construction. Is the most durable and efficient jack manufactured.

Price on application.



THE FARRELL GEARED HOIST.

This machine is especially designed to save time and labor in unloading hay, hauling ice, etc. This hoist saves one man and team, and from one-third to one-half the time in unloading hay. The man on the load operates it by a rope attached to the operating levers. The load is under perfect control at all times, and may be held, raised or lowered at will. New patented ratchet device holds the load at any point without attention. The machine is equipped with powerful band brake. Can be run by a 4 horse power gasoline engine in unloading hay. Weight, 325 pounds. Other styles designed for special purposes also manufactured.



STYLE B HOIST. LATEST MODEL.

Prices on application.

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